FUSIBILITY OF ASH OF UNITED STATES COALS

By Roy F. Abernehty and Elsie M. Cochrane

* * * * * * * * * * * information circular 7923

UNITED STATES DEPARTMENT OF THE INTERIOR
Fred A. Seaton, Secretary

BUREAU OF MINES
Marling J. Ankeny, Director

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This publication has been cataloged as follows:

Abernethy, Roy Franklin, 1905–

Fusibility of ash in United States coals, by Roy F. Abernethy and Elsie M. Cochrane. [Washington] U.S. Dept. of the Interior, Bureau of Mines [1960]

— p. tables. 26 cm. (U.S. Bureau of Mines. Information circular 7923)

Bibliographical footnotes.

1. Ash (Coal) 2. Coal—Analysis. I. Cochrane, Elsie M., joint author. II. Title. (Series)

TN23.U71 no. 7923 622.06173

U.S. Dept. of the Int. Library

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. - Price $1.75

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FUSIBILITY OF ASH OF UNITED STATES COALS[1]

by

Roy F. Abernethy[2] and Elsie M. Cochrane[3]

INTRODUCTION

Laboratory determination of the fusibility of coal ash provides considerable information for the combustion engineer engaged in pulverized-coal firing and using underfeed and spreader stokers and hand-fired small industrial and domestic stokers. This information, and that obtained by trial tests, provides the essentials for procuring the best fuel for the particular installation. The continued increase in efficiently utilizing energy in coal has caused an increasing interest in the behavior of the ash or residue during combustion. This interest is shown not only in the larger electric generating plants but also in the domestic stokers, particularly the automatic types. Because there is considerable range in the fusibility of ash and there are various methods of combustion, it is not feasible to establish one set of specifications for coal based upon fusibility alone. The chemical and physical characteristics of the coal also must be considered for the best performance.

An earlier publication[4] gave only the softening temperatures for mine samples and did not give the initial and fluid temperatures; therefore the fusibility intervals could not be determined. The intervals between the initial, softening, and fluid temperatures are, in many instances, more informative than the temperature at a deformation stage.

This publication includes all information on fusibility of coal-ash determinations of coal tested from 1921 to 1957. These data are, for the greater part, from tipple samples; the preceding publication contained information almost exclusively on mine samples. The data in this publication are of more

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1/ Work on manuscript completed August 15, 1958.

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4/ Selvig, W. A., and Fieldner, A. C., Fusibility of Ash From Coals in the United States: Bureau of Mines Bull. 209, 1922, 119 pp.

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practical value because the tipple samples[5] represent the coal as used; whereas the mine samples[6] were selected so that the coal was free of visual impurities.

This information should assist the consumer when procuring and utilizing coal.

COAL ASH AND ITS ORIGIN

By definition,[7] coal ash is "inorganic residue remaining after ignition of combustible substances, determined by definite, prescribed methods."[8] The ash may not be the same in composition or quantity as the mineral matter in the coal.

The temperature employed in ignition of the combustible matter is high enough to decompose minerals such as carbonates, sulfides (pyrite), shales, and clay.

Mineral matter in coal is the composite product of (1) the mineral matter as a constituent of the vegetal matter from which the coal was formed, (2) substances absorbed by the carbonaceous material from percolating water or crystallized therefrom, (3) clays and minerals deposited simultaneously with the vegetal matter, and (4) adventitious contaminants from roof and floor during mining.

Compounds of silicon, aluminum, iron, calcium, and magnesium are the principal constituents, with lesser amounts of titanium, sodium, potassium, and sulfur. In certain areas minerals containing various other elements are found from trace amounts to quantities large enough for economic commercial recovery.

METHOD OF ANALYSIS

Determination of the fusibility of ash is empirical; and factors such as rate of heating, atmosphere, and particle size of ash in test piece affect the results. Development of the method of analysis used to obtain the data in this report has been published.[9]

5/ Snyder, N. H., and Aresco, S. J., Coal Sampling (Revision of Tech. Paper 133): Bureau of Mines Handbook, 1957, 16 pp.

6/ Holmes, J. A., The Sampling of Coal in the Mine: Bureau of Mines Tech. Paper 1, 1918 (rev.), 22 pp.

7/ American Society for Testing Materials, Standard Definitions of Terms Relating to Coal and Coke (Designation D 121-30): ASTM Standards, 1954, p. 108.

8/ Fieldner, A. C., and Selvig, W. A., Methods of Analyzing Coal and Coke: Bureau of Mines Bull. 492, 1951, 51 pp.

9/ Fieldner, A. C., Hall, A. E., and Field, A. L., The Fusibility of Coal Ash and the Determination of the Softening Temperature: Bureau of Mines Bull. 129, 1918, 146 pp.

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A detailed description of the method used to obtain the data in table 3 also has been published.10/

Coal ash ground to pass through a 74-micron (No. 200) sieve is molded into 3/4-inch-high triangular pyramids, referred to as cones. The side of the equilateral base is one-fourth inch. These cones are mounted vertically in a refractory base and heated in a natural gas-fired furnace at a rate between 5° and 10° C. per minute. The gas and air are adjusted to give the specified heating rate and also provide the required mildly reducing atmosphere around the cones. An optical pyrometer of the disappearing filament type was used in making the temperature measurements.

FUSIBILITY OF ASH

The fusibility of ash should not be confused with such terms as "fusion," "softening," and "melting" points. It includes a temperature range and deformation record of a specially designed and prepared cone of the ash heated under specified conditions.

The fusibility of ash includes:

1. Initial Deformation Temperature. - The temperature at which the first rounding or bending of the apex of the cone occurs.

2. Softening Temperature. - The temperature at which the cone has fused down to a spherical lump.

3. Fluid Temperature. - The temperature at which the cone has spread out over the base in a flattened layer.

Temperatures at which the above deformations occur are used to compute three temperature intervals — the difference between condition 1 and 2, 1 and 3, and 2 and 3. These temperature intervals are used to estimate roughly the flow properties of the ash. For instance, if the temperature interval or fusibility range between the initial and fluid temperature is 40° to 50° F., the ash acts as a compound; but if this fusibility range is 300° to 500° F., the ash behaves as a mixture of compounds, one acting as a fluxing agent for a more refractory component.

Considerable information on the industrial application of the fusibility of the ash has been summarized.11/

The average softening temperatures, ranges of softening temperatures, and fusibility ranges (temperature interval between the initial and fluid temperatures) by beds and States are given in table 1.

10/ Work cited in footnote 8.
11/ National Research Council, Chemistry of Coal Utilization: John Wiley & Sons, vol. 1, 1945, pp. 496-571.

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SOFTENING TEMPERATURE BY CLASS

In a previous publication[12/] the softening temperature of coal ash from coals of the United States had been arbitrarily divided into three classes:

Class I. - Softening above 2,600° F.

Class II. - Softening between 2,200° and 2,600° F.

Class III. - Softening below 2,200° F.

The softening temperatures in table 2 have been classified by the foregoing scheme according to beds and States.

SOURCE OF INFORMATION

The analyses tabulated in this paper were made in the Analysis Section, Bureau of Mines, Pittsburgh, Pa., and represent those made from June 1, 1921, to June 30, 1957. All analyses were reviewed for this report, and those used represent the sizes of the coals produced. If the analytical results of repeated samplings from a mine agreed, only the latest analyses were given; if results of samplings varied, all analyses were given to show the range that could be expected.

Bureau of Mines engineers collected the tipple samples and obtained from mine officials pertinent information, such as mine name, bed, location, and preparation of the coal. Mine samples were collected by engineers and geologists of the respective States and of the Federal Geological Survey and Bureau of Mines.

These data, collected over a period of 36 years, may include some duplications due to changes in the name of the mine. The values reported are correct for the samples analyzed but do not necessarily represent the average for the mine or present-day production.

EXPLANATION OF TABLE 3

Column 1 lists alphabetically the State, county, town, and mine. The names of the coalbeds in column 2 are those accepted by the several State geologists. In some districts a local bed name may be used and therefore may be improperly correlated. The letters M and T in column 3 indicate mine and tipple samples, respectively. The size and preparation of each sample are shown in column 4. When more than one mine sample from the same mine was tested, the results were averaged. Columns 6, 7, and 8 give the initial, softening, and fluid temperatures, respectively.

12/ Work cited in footnote 4, p. 1.

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
ALABAMA						
America	2,520	2,890	2,720 (20)	160	740	326 (10)
Black Creek	2,090	2,850	2,450 (141)	100	650	363 (135)
Blue Creek	2,910+	-	2,910+(5)	-	-	-
Do.	2,580	2,900	2,720 (10)	380	550	437 (6)
Brookwood	2,510	2,860	2,770 (16)	160	300	244 (5)
Corona	2,210	2,730	2,380 (32)	160	570	378 (32)
Harkness	2,110	2,300	2,230 (20)	250	620	399 (20)
Helena	1,920	2,800	2,470 (19)	160	380	281 (18)
Henry Ellen	2,220	2,710	2,540 (24)	240	510	338 (24)
Hill	2,910+	-	2,910+(4)	-	-	-
Do.	2,230	2,870	2,550 (22)	160	470	312 (18)
Jagger	2,910+	-	2,910+(5)	-	-	-
Do.	2,260	2,780	2,530 (19)	220	450	326 (19)
Jefferson	2,190	2,550	2,290 (28)	180	600	362 (28)
Mary Lee	2,910+	-	2,910+(17)	-	-	-
Do.	2,200	2,890	2,660 (148)	120	440	260 (104)
Milldale	2,150	2,670	2,400 (19)	200	450	300 (19)
Montevallo	2,070	2,420	2,270 (24)	140	320	196 (24)
Nunnally	2,160	2,840	2,480 (21)	110	430	218 (21)
Pratt	2,200	2,770	2,450 (120)	150	630	360 (114)
Thompson	2,040	2,390	2,190 (37)	150	470	279 (37)
Woodstock	2,090	2,420	2,250 (63)	70	540	251 (63)
Youngblood	2,080	2,330	2,150 (13)	100	440	221 (13)
ARKANSAS						
Excelsior	2,100	2,310	2,170 (8)	140	470	246 (8)
Hartshorne	2,050	2,750	2,310 (183)	30	660	292 (180)
Paris	2,050	2,500	2,300 (73)	50	410	198 (73)
Philpot	2,220	2,440	2,290 (10)	220	420	359 (10)
Spadra	2,120	2,400	2,300 (10)	190	370	270 (10)
COLORADO						
Brookside	2,190	2,780	2,440 (64)	150	480	306 (62)
Cameo	2,910+	-	2,910+(7)	-	-	-
Do.	2,540	2,900	2,720 (14)	70	230	153 (9)
Cameron	2,310	2,620	2,410 (25)	170	530	329 (25)
Cannon City	2,030	2,310	2,200 (9)	200	290	249 (9)
Cass	2,460	2,680	2,590 (5)	160	320	278 (5)
Chandler	2,070	2,490	2,280 (8)	140	370	239 (8)

See footnotes at end of tables.

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals (Con.)

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
COLORADO (Con.)						
C	2,220	2,860	2,520 (16)	110	490	263 (16)
D	2,260	2,890	2,540 (23)	110	480	294 (21)
E	2,180	2,570	2,380 (13)	160	430	281 (13)
Fox Hill	2,100	2,560	2,300 (27)	80	350	199 (27)
Gorham	2,090	2,300	2,170 (14)	110	330	190 (14)
Hesperus	2,020	2,840	2,290 (25)	70	530	311 (23)
Jack O'Lantern	2,030	2,720	2,270 (15)	140	570	327 (15)
Laramie	2,020	2,360	2,120 (29)	50	540	252 (29)
Lennox	2,090	2,510	2,310 (12)	210	450	324 (12)
Leyden	2,090	2,340	2,220 (9)	80	190	128 (9)
Mesa Verde	2,330	2,820	2,640 (15)	340	580	460 (2)
Monarch	2,130	2,400	2,240 (10)	140	390	330 (9)
No. 1	2,910+	-	2,910 (4)	-	-	-
Do.	2,150	2,850	2,460 (20)	160	520	304 (17)
No. 2	2,910+	-	2,910+(8)	-	-	-
Do.	2,320	2,900	2,660 (8)	100	370	202 (5)
No. 3	2,470	2,690	2,550 (5)	150	420	304 (5)
No. 4	2,040	2,530	2,240 (9)	70	470	324 (9)
Palisade	2,910+	-	2,910+(2)	-	-	-
Do.	2,160	2,800	2,520 (41)	110	770	312 (37)
Pinnacle	2,910+	-	2,910+(2)	-	-	-
Do.	2,170	2,910	2,460 (45)	70	540	251 (45)
Primero	2,250	2,680	2,490 (15)	160	370	288 (15)
Thomas	2,140	2,440	2,250 (9)	390	660	512 (9)
Tobasco	2,910+	-	2,910+(5)	-	-	-
Robinson	2,230	2,780	2,530 (14)	200	390	274 (14)
Wadge	2,910+	-	2,910+(8)	-	-	-
Do.	2,360	2,890	2,670 (23)	70	370	208 (18)
Walsen	2,260	2,560	2,390 (20)	160	330	246 (20)
Wolf Creek	2,500	2,910	2,720 (8)	90	410	218 (5)
Zenith	1,990	2,360	2,120 (8)	110	490	251 (8)
ILLINOIS						
No. 1	2,000	2,260	2,150 (13)	210	510	359 (13)
No. 2	1,900	2,310	2,030 (58)	90	610	289 (58)
No. 5	1,840	2,400	2,030 (273)	80	680	337 (272)
No. 6	1,850	2,690	2,170 (724)	70	710	345 (721)
No. 7	2,000	2,130	2,060 (36)	120	500	318 (36)

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	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
INDIANA						
Brazil Block	2,110	2,910	2,620 (25)	140	610	341 (22)
No. 3	1,930	2,290	2,110 (53)	90	680	440 (51)
No. 4	2,050	2,860	2,430 (76)	60	780	305 (74)
No. 5	1,940	2,780	2,150 (232)	30	700	357 (232)
No. 6	1,980	2,460	2,200 (106)	140	660	375 (102)
IOWA						
Mammoth	1,960	2,130	2,070 (6)	100	210	168 (6)
Mystic	1,910	2,060	1,970 (45)	60	400	182 (45)
Nodaway	2,210	2,330	2,230 (9)	80	270	162 (9)
No. 3	1,930	2,200	2,070 (34)	60	320	189 (34)
KANSAS						
Bevier	2,130	2,740	2,500 (32)	40	550	194 (32)
Cherokee	1,980	2,220	2,050 (50)	60	550	228 (49)
Mineral	1,890	2,190	2,000 (32)	40	380	224 (32)
KENTUCKY - EASTERN						
Amburgy	2,910+	-	2,910+(2)	-	-	-
Do.	2,150	2,340	2,220 (6)	210	500	397 (6)
Alma	2,910+	-	2,910+(4)	-	-	-
Do.	2,690	2,910	2,800 (15)	130	310	221 (7)
Blue Gem	2,030	2,460	2,160 (22)	160	550	319 (18)
Dean	2,910+	-	2,910+(5)	-	-	-
Do.	2,620	2,860	2,770 (14)	150	520	269 (12)
Elkhorn No. 1	2,050	2,910	2,590 (47)	50	510	305 (37)
Elkhorn No. 2	2,160	2,850	2,550 (26)	170	710	384 (21)
Elkhorn No. 3	2,910+	-	2,910+(5)	-	-	-
Do.	2,080	2,890	2,380 (175)	120	620	391 (173)
Haddix (No. 5A)	2,910+	-	2,910+(10)	-	-	-
Do.	2,490	2,850	2,720 (12)	160	290	221 (7)
Harlan	2,150	2,890	2,580 (182)	140	610	327 (162)
Hazard No. 4	2,910+	-	2,910+(19)	-	-	-
Do.	2,000	2,910	2,620 (201)	90	600	279 (155)
Hazard No. 6	2,910+	-	2,910+(14)	-	-	-
Do.	2,700	2,870	2,840 (12)	-	-	-
Hazard No. 7	2,910+	-	2,910+(33)	-	-	-
Do.	2,080	2,900	2,430 (34)	-	-	-

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State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
KENTUCKY - EASTERN (Con.)						
Hazard No. 9	2,910+	-	2,910+(7)	-	-	-
Do.	1,980	2,860	2,340 (65)	140	530	318 (32)
High Splint	2,200	2,840	2,550 (24)	130	600	363 (20)
Horse Creek	2,040	2,580	2,290 (22)	360	630	482 (22)
Jellico	2,130	2,730	2,450 (32)	210	590	398 (32)
Leatherwood	2,370	2,660	2,580 (10)	210	460	315 (8)
Lower Hignite	2,240	2,670	2,570 (14)	310	580	414 (14)
Mason (Creech)	2,170	2,840	2,500 (61)	190	590	393 (54)
Millers Creek (Van Lear)	2,000	2,760	2,280 (46)	120	560	389 (45)
No. 1	2,300	2,700	2,430 (23)	100	500	305 (23)
No. 1 1/2	2,500	2,840	2,640 (13)	180	420	358 (5)
No. 2	2,010	2,360	2,160 (8)	310	700	505 (8)
No. 4 Rider	2,910+	-	2,910+(4)	-	-	-
Do.	2,080	2,890	2,580 (18)	130	470	271 (13)
Pond Creek	2,910+	-	2,910+(13)	-	-	-
Do.	2,210	2,910	2,610 (51)	90	470	274 (35)
Straight Creek	2,020	2,510	2,200 (63)	60	740	374 (63)
Thacker	2,910+	-	2,910+(2)	-	-	-
Do.	2,170	2,730	2,450 (12)	150	580	381 (12)
Upper Elkhorn No. 2	2,240	2,540	2,410 (17)	310	420	356 (17)
Wallins	2,270	2,610	2,420 (15)	290	540	333 (15)
Winifrede	2,910+	-	2,910+(7)	-	-	-
KENTUCKY - WESTERN						
No. 6	1,950	2,840	2,100 (97)	80	570	367 (92)
No. 9	1,940	2,440	2,070 (470)	80	660	334 (469)
No. 11	1,970	2,420	2,110 (204)	110	550	370 (204)
No. 12	2,100	2,500	2,270 (27)	250	650	397 (27)
No. 14	2,000	2,390	2,160 (31)	200	530	368 (31)
MARYLAND						
Lower Bakerstown	1,970	2,870	2,440 (38)	190	450	304 (36)
Lower Kittanning	2,330	2,530	2,430 (12)	150	600	257 (12)
Pittsburgh	2,910+	-	2,910+(11)	-	-	-
Do.	2,260	2,900	2,760 (14)	-	-	-
Tyson	2,400	2,910	2,720 (19)	60	460	230 (13)
Upper Freeport	2,170	2,890	2,610 (15)	180	460	341 (9)

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State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
MARYLAND (Con.)						
Upper Kittanning	2,480	2,890	2,620 (18)	90	520	329 (15)
Waynesburg	2,310	2,580	2,450 (5)	240	420	344 (5)
MISSOURI						
Bevier	1,940	2,210	2,050 (60)	40	500	264 (60)
Lexington	2,000	2,430	2,100 (16)	100	350	206 (16)
Mulberry	1,970	2,130	2,080 (16)	130	500	298 (16)
Tebo	1,950	2,230	2,050 (40)	70	590	292 (40)
OHIO						
No. 4	2,060	2,490	2,250 (22)	110	520	391 (22)
No. 4 A	2,060	2,300	2,140 (8)	370	560	453 (8)
No. 5	2,060	2,280	2,200 (26)	270	700	460 (25)
No. 6	2,910+	-	2,910+(8)	-	-	-
Do.	2,010	2,890	2,310 (288)	100	640	387 (281)
No. 6 A	2,150	2,520	2,310 (7)	400	640	513 (7)
No. 7	1,990	2,650	2,210 (78)	80	520	386 (76)
No. 8	1,960	2,780	2,130 (193)	130	580	407 (193)
No. 8 A	2,090	2,630	2,320 (30)	150	530	376 (30)
OKLAHOMA						
Broken Arrow	1,950	2,380	2,080 (17)	60	340	197 (17)
Cavanal	2,320	2,490	2,420 (21)	40	530	304 (21)
Henryetta	2,000	2,280	2,080 (49)	70	550	292 (49)
Lehigh	1,940	2,400	2,160 (49)	40	340	156 (49)
Lower Hartshorne	2,040	2,520	2,270 (136)	70	640	301 (136)
McAlester (Stigler)	2,010	2,440	2,230 (76)	60	580	191 (74)
Secor	2,110	2,190	2,140 (6)	280	320	292 (6)
Upper Hartshorne	2,100	2,610	2,250 (22)	50	460	236 (22)
PENNSYLVANIA						
Bloss	2,910+	-	2,910+(9)	-	-	-
Do.	2,240	2,870	2,680 (4)	-	-	-
Brookville	2,910+	-	2,910+(7)	-	-	-
Do.	1,990	2,800	2,320 (91)	40	610	363 (85)
Clarion	2,060	2,800	2,300 (19)	120	560	358 (19)

See footnotes at end of tables.

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals (Con.)

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
PENNSYLVANIA (Con.)						
Kelly	2,270	2,850	2,570 (12)	120	440	276 (11)
Lower Freeport	2,910+	-	2,910+(11)	-	-	-
Do.	2,050	2,910	2,500 (242)	90	580	317 (208)
Lower Kittanning	2,910+	-	2,910+(34)	-	-	-
Do.	1,930	2,910	2,490 (605)	70	700	361 (548)
Middle Kittanning	2,910+	-	2,910+(2)	-	-	-
Do.	2,060	2,910	2,440 (66)	120	590	382 (60)
Pittsburgh	2,910+	-	2,910+(16)	-	-	-
Do.	1,970	2,910	2,490 (538)	80	620	313 (491)
Redstone (Pittsburgh Rider)	2,910+	-	2,910+(2)	-	-	-
Do.	1,990	2,910	2,530 (39)	160	480	285 (33)
Sewickley	2,910+	-	2,910+(4)	-	-	-
Do.	2,140	2,850	2,360 (67)	90	590	286 (66)
Upper Freeport	2,910+	-	2,910+(8)	-	-	-
Do.	1,960	2,910	2,420 (521)	90	760	332 (492)
Upper Kittanning	2,910+	-	2,910+(9)	-	-	-
Do.	2,070	2,890	2,490 (151)	110	640	297 (139)
Waynesburg	2,150	2,850	2,490 (21)	110	450	214 (21)
TENNESSEE						
Battle Creek (Nelson)	2,110	2,870	2,490 (18)	190	750	417 (17)
Big Mary	2,070	2,600	2,340 (30)	140	700	496 (28)
Bon Air No. 2	2,080	2,530	2,250 (21)	210	570	426 (21)
Coal Creek	2,150	2,840	2,450 (29)	110	610	415 (28)
Glen Mary	2,020	2,680	2,400 (16)	200	440	358 (16)
Jellico	2,080	2,750	2,430 (62)	60	680	440 (60)
Mason	2,150	2,680	2,410 (12)	230	500	394 (11)
No. 7	2,270	2,780	2,510 (6)	160	690	414 (5)
No. 10	2,250	2,490	2,320 (5)	420	570	494 (5)
No. 12	2,180	2,410	2,300 (7)	430	680	561 (7)
Pee Wee	2,180	2,740	2,480 (24)	150	570	352 (22)
Poplar Creek (Rex)	2,090	2,670	2,360 (9)	290	560	373 (9)
Red Ash	2,360	2,820	2,580 (26)	140	530	324 (19)
Sewanee	2,190	2,770	2,520 (71)	170	680	390 (63)
Sterling	2,670	2,910	2,800 (9)	220	240	233 (3)
Windrock	2,330	2,620	2,460 (6)	250	680	475 (6)

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals (Con.)

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
UTAH						
Blind Canyon	2,000	2,510	2,170 (24)	90	550	311 (24)
Castlegate A	2,130	2,840	2,340 (36)	100	440	248 (34)
Castlegate B	2,130	2,300	2,220 (12)	50	370	125 (12)
Castlegate D	2,150	2,800	2,240 (35)	50	500	160 (31)
Hiawatha	2,000	2,770	2,320 (81)	70	680	282 (77)
Lower Sunnyside	2,910+	-	2,910+(7)	-	-	-
Do.	2,180	2,880	2,590 (22)	150	470	291 (12)
Rock Canyon	2,180	2,630	2,460 (8)	280	400	331 (8)
Subseam No. 1	2,010	2,400	2,130 (7)	170	250	210 (2)
Subseam No. 2	2,180	2,570	2,260 (28)	130	410	298 (25)
Subseam No. 3	2,070	2,540	2,210 (12)	130	360	241 (9)
Wasatch	2,150	2,360	2,220 (11)	30	470	149 (11)
VIRGINIA						
Clintwood	2,910+	-	2,910+(6)	-	-	-
Do.	2,210	2,900	2,690 (37)	70	630	272 (31)
Imboden	2,750	2,840	2,800 (5)	180	200	190 (2)
Jewell	2,130	2,670	2,360 (35)	190	550	433 (35)
Langhorne	2,350	2,910	2,640 (11)	160	460	285 (11)
Lower Banner	2,910+	-	2,910+(8)	-	-	-
Do.	2,230	2,890	2,590 (74)	110	570	282 (62)
Low Splint	2,430	2,810	2,630 (5)	280	400	337 (3)
Merrimac	2,910+	-	2,910+(4)	-	-	-
Do.	2,230	2,900	2,570 (73)	120	460	296 (64)
Norton	2,570	2,760	2,700 (5)	190	530	327 (3)
Pocahontas No. 3	2,380	2,840	2,620 (18)	150	430	294 (16)
Raven (Red Ash)	2,070	2,740	2,270 (39)	220	520	359 (39)
Splash Dam	2,910+	-	2,910+(4)	-	-	-
Do.	2,480	2,900	2,770 (27)	110	520	270 (16)
Taggart	2,080	2,730	2,370 (90)	140	630	344 (87)
Upper Banner	2,910+	-	2,910+(4)	-	-	-
Do.	2,130	2,890	2,490 (67)	150	640	362 (60)
WASHINGTON						
Bagley	2,910+	-	2,910+(10)	-	-	-
Do.	2,200	2,860	2,630 (16)	100	280	182 (13)
Big	2,910+	-	2,910+(2)	-	-	-
Do.	2,570	2,910	2,750 (12)	220	250	235 (2)
Dolly Varden	2,650	2,800	2,710 (6)	230	370	267 (6)

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals (Con.)

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
WASHINGTON (Con.)						
Frazier	2,580	2,800	2,670 (6)	180	350	242 (6)
Jones	2,580	2,800	2,610 (8)	140	350	274 (8)
McKay	2,100	2,870	2,410 (23)	200	590	336 (19)
Roslyn	2,230	2,840	2,380 (56)	150	400	260 (53)
Tono No. 1	2,350	2,560	2,440 (9)	130	330	230 (9)
WEST VIRGINIA						
Alma	2,910+	-	2,910+(4)	-	-	-
Do.	2,130	2,860	2,470 (43)	110	550	349 (42)
Bakerstown	2,000	2,860	2,290 (58)	160	520	356 (56)
Beckley	2,910+	-	2,910+(37)	-	-	-
Do.	2,100	2,910	2,650 (124)	120	660	300 (83)
Cedar Grove	2,910+	-	2,910+(30)	-	-	-
Do.	2,210	2,910	2,650 (202)	80	510	264 (148)
Chilton	2,910+	-	2,910+(22)	-	-	-
Do.	2,230	2,910	2,740 (61)	90	430	247 (34)
Coalburg	2,910+	-	2,910+(7)	-	-	-
Do.	2,780	2,880	2,850 (4)	-	-	-
Dorothy	2,910+	-	2,910+(51)	-	-	-
Do.	2,730	2,910	2,860 (6)	-	-	-
Eagle	2,910+	-	2,910+(42)	-	-	-
Do.	2,340	2,910	2,750 (57)	90	450	256 (30)
Fire Creek	2,910+	-	2,910+(4)	-	-	-
Do.	2,000	2,910	2,630 (89)	90	540	307 (71)
Glenalum	2,910+	-	2,910+(7)	-	-	-
Hernshaw	2,310	2,780	2,540 (5)	120	550	352 (5)
Iaeger	2,150	2,790	2,470 (9)	190	550	380 (9)
Lower Kittanning (No. 5 Block)	2,910+	-	2,910+(54)	-	-	-
Do.	2,420	2,910	2,720 (31)	120	450	224 (23)
Middle Kittanning	2,910+	-	2,910+(9)	-	-	-
Do.	2,490	2,740	2,620 (2)	230	230	230 (2)
No. 2 Gas	2,910+	-	2,910+(8)	-	-	-
Do.	2,180	2,910	2,670 (64)	100	630	273 (59)
Pittsburgh	1,970	2,630	2,180 (523)	100	620	379 (521)
Pocahontas No. 3	2,910+	-	2,910+(39)	-	-	-
Do.	2,140	2,910	2,540 (344)	60	650	286 (289)
Pocahontas No. 4	2,910+	-	2,910+(14)	-	-	-
Do.	2,160	2,890	2,560 (93)	90	580	245 (70)
Pocahontas No. 5	2,110	2,370	2,230 (10)	350	470	399 (10)

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TABLE 1. - Softening temperatures and fusibility ranges of ash of United States coals (Con.)

State and bed	Softening Temperature, °F.			Fusibility Range, °F. 1/		
	Lowest	Highest	Average 2/	Lowest	Highest	Average 2/
1	2	3	4	5	6	7
WEST VIRGINIA (Con.)						
Pocahontas No. 6	2,910+	-	2,910+(3)	-	-	-
Do.	2,340	2,890	2,690 (16)	120	390	301 (12)
Pocahontas No. 11	2,460	2,660	2,570 (5)	250	460	314 (5)
Pond Creek	2,910+	-	2,910+(2)	-	-	-
Do.	2,540	2,860	2,740 (5)	-	-	-
Powellton	2,910+	-	2,910+(13)	-	-	-
Do.	2,310	2,870	2,540 (25)	180	630	340 (19)
Red Ash	2,200	2,550	2,390 (14)	270	460	407 (14)
Redstone	2,050	2,500	2,200 (59)	150	560	376 (59)
Sewell	2,910+	-	2,910+(41)	-	-	-
Do.	2,040	2,910	2,560 (363)	80	680	338 (328)
Sewickley	2,120	2,780	2,380 (36)	190	560	361 (35)
Upper Freeport	2,910+	-	2,910+(6)	-	-	-
Do.	2,080	2,910	2,580 (104)	90	600	328 (88)
Upper Kittanning	2,910+	-	2,910+(1)	-	-	-
Do.	2,320	2,790	2,550 (12)	180	420	337 (9)
Welch	2,910+	-	2,910+(1)	-	-	-
Do.	2,460	2,890	2,770 (14)	80	420	256 (10)
Winifrede	2,910+	-	2,910+(28)	-	-	-
Do.	2,430	2,910	2,770 (36)	160	460	253 (17)
WYOMING						
Blind Bull	2,070	2,370	2,220 (7)	110	410	254 (7)
Carney	2,040	2,310	2,200 (5)	60	100	74 (5)
Frontier No. 1	2,130	2,210	2,170 (6)	160	270	227 (6)
Hanna No. 2	2,210	2,540	2,350 (10)	50	300	111 (10)
Johnson	2,180	2,470	2,300 (10)	170	500	345 (10)
Monarch	2,070	2,510	2,240 (20)	50	360	177 (20)
No. 1	2,030	2,860	2,330 (29)	80	480	235 (28)
No. 3	2,910+	-	2,910+(3)	-	-	-
Do.	1,970	2,910	2,340 (30)	80	400	197 (21)
No. 7	2,030	2,910	2,390 (37)	90	560	272 (31)
No. 7 1/2	1,970	2,420	2,150 (11)	160	570	316 (11)
No. 9	2,070	2,340	2,180 (5)	130	460	292 (5)
No. 10	2,030	2,060	2,050 (5)	130	340	238 (5)
No. 11	2,050	2,280	2,190 (13)	100	410	320 (13)
No. 15	2,910+	-	2,910+(1)	-	-	-
Do.	2,100	2,810	2,380 (10)	70	520	280 (10)
Roland-Smith	2,110	2,360	2,230 (12)	40	150	73 (12)
Willow Creek (Kemmerer No. 5)	2,080	2,410	2,260 (13)	170	520	342 (13)

1/ Interval between initial and fluid temperatures.

2/ Numbers in parentheses denote analyses in average.

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TABLE 2. - Percentage distribution of softening temperatures by class

Region and state	Class 1 More than 2600 °F.	Class 2 2200 to 2600 °F.	Class 3 Less than 2200 °F.	Number of samples
1	2	3	4	5
EASTERN				
Alabama	31	59	10	634
Kentucky, Eastern	41	48	11	1,263
Maryland	58	37	5	124
Ohio	9	38	53	613
Pennsylvania	29	58	13	2,377
Tennessee	29	59	12	332
Virginia	41	52	7	507
West Virginia	46	39	15	2,671
Region average	36	48	16	
Number of analyses for region				8,521
INTERIOR				
Arkansas	2	77	21	177
Illinois	1	22	77	999
Indiana	10	29	61	471
Iowa	-	11	89	83
Kansas	9	16	75	95
Kentucky, Western	-	9	91	763
Michigan	-	43	57	23
Missouri	-	2	98	118
Oklahoma	-	53	47	343
Region average	2	26	72	
Number of analyses for region				3,072
NORTHERN GREAT PLAINS AND ROCKY MOUNTAIN				
Colorado	24	56	20	532
Montana	1	54	45	85
New Mexico	50	46	4	137
North Dakota	-	92	8	25
Utah	13	53	34	275
Wyoming	11	54	35	201
Region average	20	55	25	
Number of analyses for region				1,255

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TABLE 2. - Percentage distribution of softening temperatures by class (Con.)

Region and state	Class 1 More than 2600 °F.	Class 2 2200 to 2600 °F.	Class 3 Less than 2200 °F.	Number of samples
1	2	3	4	5
COAST				
Oregon	-	40	60	10
Washington	32	65	3	182
Region average	30	64	6	
Number of analyses for region				192
ALASKAN				
Alaska	40	51	9	70
Region average	40	51	9	
Number of analyses for region				70
Average for United States	26	44	30	
Number of analyses in report				13,110

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TABLE 3. - Fusibility of ash of United States Coals

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA										
Bibb County										
Belle Ellen										
Belle Ellen No. 5	Woodstock	M		3	2,170	2,290	2,470	4.7	1.0	B19583 to B19585
Do.	do.	T	Run-of-mine		1,950	2,320	2,490	7.5	.9	B19587
Blocton										
Blocton No. 4	do.	M		4	2,120	2,230	2,340	3.9	1.1	82799 to 82802
Blocton No. 10	do.	M		6	2,060	2,150	2,190	9.7	1.2	83898 to 83903
Coleanor	Thompson	T	10-inch lump		2,280	2,390	2,490	6.2	.6	B18827
Do.	do.	T	10- by 4-inch		2,290	2,370	2,470	5.3	.6	B18828
Do.	do.	T	4- by 1-1/4-inch (W)		2,270	2,360	2,500	5.6	.6	B18829
Do.	do.	T	1-1/4-inch by 0 (W)		2,020	2,140	2,310	8.0	.5	B18830
Dixie	Gholson	M		1	2,230	2,280	2,350	7.8	2.4	96452
Hills Creek	Woodstock	T	3- by 1-1/2-inch (W)		1,940	2,170	2,330	4.3	.8	B15323
Do.	do.	T	1-1/2-inch by 0 (W)		2,090	2,240	2,470	7.3	1.2	B15324
Do.	do.	T	6-inch lump		2,260	2,390	2,510	4.2	.8	B15354
Do.	do.	T	6- by 3-inch		2,140	2,310	2,420	4.0	.9	B15355
Klondyke	do.	T	6-inch lump		2,190	2,400	2,490	4.4	.7	B15356
Do.	do.	T	6-inch by 0		2,070	2,220	2,420	12.2	1.2	B15357
Do.	do.	M		4	2,180	2,330	2,440	3.5	1.1	82716 to 82719
Norris	Yessick	M		3	2,120	2,300	2,350	17.3	1.4	83060 to 83062
Piper	Thompson	T	8-inch lump		2,190	2,240	2,370	5.7	.3	B18831
Do.	do.	T	8- by 3-inch		2,170	2,240	2,370	5.8	.4	B18832
Do.	do.	T	3- by 1-1/2-inch (W)		2,160	2,240	2,370	5.2	.4	B18834
Do.	do.	T	1-1/2-inch by 0 (W)		2,010	2,040	2,310	8.2	.3	B18833
Red Feather	do.	M		5	2,030	2,150	2,230	7.6	1.5	83013 to 83017
Tico	do.	M		5	2,080	2,140	2,230	2.8	.8	83044 to 83048
Marvel										
Marvel	Clarke	T	8-inch lump		2,130	2,300	2,370	7.0	.6	B16397
Do.	do.	T	8- by 3-inch		2,100	2,280	2,370	7.1	.7	B16398
Do.	do.	T	3- by 1-1/4-inch		2,030	2,190	2,260	7.6	.7	B16399
Do.	do.	T	1-1/4-inch by 0 (W)		2,160	2,260	2,420	9.6	.8	B16400
Marvel No. 2	do.	T	10- by 4-inch		2,190	2,320	2,420	6.1	.6	D84964
Do.	do.	T	4- by 1-1/2-inch (W)		2,100	2,150	2,170	7.3	.6	D84965
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,100	2,150	2,330	8.4	.6	D84966
Do.	do.	T	1-1/2-inch by 0 (W)		2,060	2,240	2,470	8.7	.7	D84967
Masena										
Belle Ellen No. 8	Youngblood	M		3	2,090	2,160	2,190	4.5	1.2	A28929 to A28931
Piper										
Piper No. 2	Thompson	M		2	2,170	2,250	2,320	5.6	.5	C52524 and C52525
West Blocton										
Blocton No. 9	Woodstock	T	8-inch lump		2,140	2,210	2,450	4.9	.9	C37552
Do.	do.	T	8- by 4-inch		2,100	2,170	2,360	4.3	.8	C37553
Do.	do.	T	4- by 7/8-inch (W)		2,150	2,250	2,470	4.8	.8	C37554
Do.	do.	T	7/8-inch by 0 (W)		2,150	2,310	2,510	6.8	1.0	C37555
Do.	do.	T	10-inch lump		2,000	2,260	2,470	3.5	.5	D45687
Do.	do.	T	10- by 4-inch		2,050	2,360	2,570	3.3	.5	D45688
Do.	do.	T	4- by 1-1/2-inch (W)		2,330	2,420	2,520	4.3	.5	D45689
Do.	do.	T	1-1/2- by 1-inch (W)		2,260	2,360	2,570	5.3	.7	D45690
Do.	do.	T	1- by 1/2-inch (W)		2,180	2,310	2,570	6.5	.8	D45691

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Do.	do.	T	1-1/2-inch by 0 (W)		2,230	2,360	2,600	8.3	1.0	D45692
Hills Creek	do.	M		5	2,150	2,310	2,400	4.2	1.1	83050 to 83054
Blount County										
Inland										
Blackburn	Blackburn (Inland)	T	4-inch by 0		2,540	2,590	2,650	14.7	1.2	D43819
Do.	do.	T	5-inch by 0		2,570	2,700	2,780	15.2	1.4	D49149
Lehigh										
Lehigh	Black Creek	M		6	1,990	2,310	2,480	3.5	1.3	80132 to 80137
Oneonta										
Cowden Gap	Jagger	T	Run-of-mine		2,600	2,680	2,820	14.8	1.2	E38713
Southview	Thompson	T	do.		2,050	2,150	2,520	4.0	1.1	D48862
Do.	do.	T	6- by 1-1/4-inch		1,980	2,090	2,40	3.7	1.0	E38714
Do.	do.	T	1-1/4- by 1/2-inch		1,990	2,160	2,450	4.2	.9	E38715
Do.	do.	T	1/2-inch by 0		2,000	2,150	2,430	5.4	1.1	E38716
Wadsworth	Altoona	M		3	2,050	2,300	2,560	2.6	1.3	B20043 to B20045
Do.	do.	T	Run-of-mine		2,000	2,220	2,430	4.4	1.8	B20051
Oates Gap										
Shirley	do.	M		3	2,190	2,390	2,650	2.6	1.1	B20047 to B20049
Warrior										
Carbon Group No. 11	Black Creek	M		2	2,190	2,260	2,320	3.7	.9	83296 and 83297
Carbon Group No. 12	do.	M		2	2,250	2,340	2,400	2.9	.7	83294 and 83295
Carbon Group No. 13	do.	M		1	2,680	2,850	2,960	2.7	.7	83293
Nyota Group No. 7 1/2	do.	M		2	2,320	2,480	2,540	4.0	1.2	83428 and 83429
Nyota Group No. 8	do.	M		1	2,100	2,360	2,450	3.5	1.4	83430
Nyota Group No. 10	do.	M		2	2,630	2,800	2,860	3.1	.8	83426 and 83427
Cherokee County										
Cloudland										
Eller	Hill	M		1	2,230	2,310	2,550	3.3	.7	B99404
Fort Payne										
Eller No. 1	do.	M		1	2,080	2,240	2,400	3.2	1.6	C24987
Eller No. 2	do.	M		1	2,100	2,270	2,570	3.5	1.0	C24811
Eller No. 6	do.	M		1	2,380	2,520	2,810	2.0	.6	C24988
Eller No. 8	do.	M		1	2,250	2,400	2,660	2.5	.7	C24878
Eller No. 10	do.	M		1	2,220	2,430	2,690	1.7	.6	C24879
Hickey No. 2	do.	M		1	2,250	2,370	2,570	1.8	.6	C25738
Hickey No. 3	do.	M		1	2,240	2,420	2,660	2.1	.8	C26024
Cullman County										
Hanceville										
Stouts Mountain	Black Creek	T	4-inch lump		2,420	2,520	2,800	1.3	.7	D49150
Do.	do.	T	4- by 2-inch		2,420	2,520	2,780	1.6	.7	D49151
Do.	do.	T	1-1/4- by 1/4-inch		2,080	2,210	2,580	2.6	.7	D49152
Do.	do.	T	1/4-inch by 0		2,080	2,180	2,480	3.5	.8	D49153
Jasper (Walker County)										
Bugtussle	do.	T	3-1/2-inch lump		2,620	2,680	2,730	1.4	.7	D47487
Do.	do.	T	3-1/2- by 1 1/4-inch		2,540	2,620	2,840	1.6	.6	D47488
Do.	do.	T	1-1/4- by 1/2-inch		2,680	2,780	2,870	1.9	.5	D47489
Do.	do.	T	1/2-inch by 0		2,470	2,590	2,680	6.0	.6	D47490
DeKalb County										
Batelle										
Batelle	Hill	M		1	2,730	2,800	2,910+	15.1	1.4	B99403

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
DeKalb County (Con.)										
Fort Payne										
Alf Hawkins	Hill	M		1	2,680	2,740	2,860	19.7	.6	C19582
Hill	do.	M		1	2,220	2,480	2,640	12.2	1.7	B99402
Honey Bee No. 3	do.	M		1	2,770	2,840	2,910+	15.1	1.0	C26675
Honey Bee No. 7	do.	M		1	2,650	2,730	2,830	17.5	1.5	C26679
Honey Bee No. 10	do.	M		1	2,910+	-	-	11.9	.8	C26785
Honey Bee No. 12	do.	M		1	2,100	2,230	2,470	13.7	3.4	C26676
Lowrey No. 1	do.	M		1	2,130	2,240	2,470	2.2	1.0	C26096
Payne No. 7	do.	M		1	2,700	2,780	2,890	10.9	.6	C26677
Payne No. 10	do.	M		1	2,680	2,760	2,880	9.0	1.1	C26678
Payne No. 17	do.	M		1	2,700	2,760	2,890	12.3	1.3	C26705
Reece, D. A.	do.	M		1	2,910	2,910+	-	10.7	.9	B99406
Reece No. 1	do.	M		1	2,730	2,790	2,910+	13.3	1.3	C26023
Reece No. 6	do.	M		1	2,520	2,600	2,740	11.4	1.4	C26201
Reece No. 8	do.	M		1	2,620	2,680	2,780	11.1	1.2	C26680
Reece No. 9	do.	M		1	2,850	2,910+	-	12.3	.8	C26674
Reece No. 10	do.	M		1	2,800	2,870	2,910+	8.4	.8	C26269
Mentone										
Hawkins	do.	M		1	2,910+	-	-	10.3	.9	B99404
Fayette County										
Carbon Hill										
Howard	Corona	M		5	2,150	2,430	2,550	12.3	2.9	A19660 to A19664
Jackson County										
Long Island										
Edgeworth	-	M		1	1,980	2,050	2,330	9.2	.9	B43738
(No town given)										
Baugh	Battle Creek	M		1	2,190	2,500	2,650	12.7	1.9	B43472
Hodge	-	M		1	2,180	2,470	2,520	7.0	1.3	B43476
Jacobs	Battle Creek	M		1	2,080	2,470	2,730	9.2	2.5	B43477
Kennedy	-	M		1	2,150	2,500	2,590	9.2	1.9	B43475
Naught	Battle Creek	M		1	2,000	2,310	2,550	7.2	1.7	B43474
Shelton	-	M		1	2,070	2,380	2,620	8.7	2.5	B43473
Tennessee Valley	Battle Creek	M		1	2,190	2,510	2,640	10.3	1.2	B43471
(Wagon Mine)	-	M		1	2,700	2,820	2,910+	10.7	.8	B43263
Do.	-	M		1	2,020	2,090	2,560	6.4	2.7	B43261
Jefferson County										
Bessemer										
Parkwood	Gould	M		3	2,120	2,470	2,530	8.0	1.9	83443 to 83445
Virginia	America	M		3	2,780	2,840	2,910+	4.4	.7	C53061 to C53063
Birmingham										
Cahaba	Harkness	M		5	2,070	2,300	2,490	9.4	1.0	80390 to 80392 and 80394 and 80395

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Cahaba No. 3	Henry Ellen	T	Run-of-mine		1,960	2,220	2,470	11.3	.8	B15493
Clift	Pratt	T	do.		2,430	2,500	2,660	8.5	1.9	B20578
Overton No. 1	Lower Nunnally	M		3	1,920	2,160	2,270	6.8	1.5	84900 to 84902
Overton No. 2	Upper Nunnally	M		3	2,320	2,450	2,540	12.6	.7	84896 to 84898
Praco	Mary Lee	T	Run-of-mine		2,470	2,690	2,810	15.4	1.0	B16720
Do.	do.	T	3-inch by 0 (W)		2,470	2,700	2,840	15.4	1.0	B16721
Do.	do.	T	1/4-inch by 0 (W)		2,470	2,690	2,760	11.0	1.1	B16722
Sayreton	do.	T	Run-of-mine (W)		2,680	2,770	2,870	9.7	.7	B15789
Birmingport										
Birmingport	Pratt	T	do.		2,020	2,470	2,540	7.9	2.2	E55670
Do.	do.	T	5/8-inch by 0		2,090	2,440	2,590	10.2	2.3	E55671
Blossburg										
Blossburg No. 2	Nickel Plate	M		3	2,080	2,350	2,490	12.0	2.5	A26226 to A26228
Blossburg E	Pratt	M		4	2,190	2,400	2,590	6.6	1.9	A83444 to A83447
Do.	do.	T	4-inch lump		2,040	2,340	2,470	8.1	2.2	A83595
Do.	do.	T	4- by 1-1/2-inch		2,040	2,200	2,560	8.6	2.4	A83596
Do.	do.	T	1-1/2-inch by 0		2,390	2,520	2,700	7.5	1.8	A83597
Do.	do.	T	1-1/2-inch lump		2,090	2,410	2,650	7.5	2.0	A83598
Do.	do.	T	9/16-inch by 0		2,370	2,520	2,610	4.6	1.4	A83599
Do.	do.	T	Run-of-mine		2,050	2,210	2,590	8.0	2.2	A83600
Do.	do.	T	2-1/4-inch lump		2,110	2,350	2,570	6.9	1.8	B19215
Do.	do.	T	2-1/4- by 7/16-inch (W)		2,060	2,450	2,610	7.5	1.6	B19216
Do.	do.	T	7/16-inch by 0		2,420	2,510	2,610	9.3	1.5	B19217
Do.	do.	T	7/16-inch by 0 (W)		2,450	2,500	2,610	6.5	1.4	B19218
Do.	do.	T	1-1/2-inch by 0 (W)		2,050	2,450	2,580	7.5	1.6	B19389
Do.	do.	M		4	2,080	2,400	2,520	6.8	2.0	B19279 to B19282
Bradford										
Bradford	Black Creek	M		5	2,410	2,540	2,600	3.3	.8	82091 to 82095
Do.	do.	T	Run-of-mine (W)		2,490	2,640	2,710	3.0	.6	B15432
Do.	do.	M		6	2,450	2,660	2,920+(1)	3.9	.7	B18501 to B18506
Cardiff										
Joe Trombello	Pratt	T	Run-of-mine (W)		2,000	2,310	2,520	8.9	3.4	B18462
Connellsville										
Connellsville	Blue Creek	M		4	2,420	2,580	2,800	12.8	.7	A55910 to A55913
Docena										
Docena	Pratt	M		6	2,200	2,410	2,490	5.1	1.3	83795 to 83800
Do.	do.	M		4	2,190	2,310	2,360	7.4	1.9	84066 to 84069
Do.	do.	T	3-inch lump		1,960	2,310	2,480	6.8	1.9	B16104
Do.	do.	T	3-inch by 0 (W)		2,000	2,460	2,590	5.5	1.3	B16105
Dolomite										
Dolomite	do.	M		2	2,390	2,480	2,610	7.1	.9	A56492 and A56493
Dolomite No. 1	do.	M		4	2,250	2,700	2,740+(1) 2,850 (2)	6.4	.6	80189 to 80192
Dolomite No. 3	do.	M		5	1,970	2,360	2,490	6.8	1.8	80183 to 80187
Do.	do.	M		5	2,230	2,480	2,680	6.4	1.1	A52461 to A52465
Ensley										
Bayview	do.	M		6	2,310	2,450	2,520	8.1	2.0	83688 to 83693
Do.	do.	M		1	2,010	2,220	2,330	4.9	2.0	83829
Edgewater	Pratt (Upper Level)	M		6	2,240	2,370	2,440	5.9	1.8	83817 to 83822
Do.	Pratt (Lower Level)	M		6	2,270	2,390	2,460	7.3	1.5	83879 to 83884
Fairfield										
Edgewater	Pratt	T	Run-of-mine (W)		2,080	2,480	2,650	5.6	1.5	B15961
Do.	do.	T	4-inch by 0		2,080	2,530	2,690	13.4	1.7	B15962
Do.	do.	T	1-1/2-inch by 0		2,370	2,530	2,620	11.2	1.8	B16107
Wylam No. 8	do.	T	2-1/2-inch lump		2,010	2,370	2,530	7.1	1.4	B16055

1/ M, mine sample; T, tipple sample.

2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
Jefferson County (Con.)										
Fairfield										
Wylam No. 8	Pratt	T	Run-of-mine (W)		2,140	2,540	2,620	5.3	1.1	B16056
Do.	do.	T	2-1/2-inch by 0		2,390	2,640	2,790	18.3	1.6	B16057
Flat Top										
Flat Top	Mary Lee	M		4	2,360	2,540	2,700	14.5	1.1	A64118 to A64121
Haig										
Majestic	Black Creek	M		1	2,500	2,670	2,730	5.0	.7	A22527
Johns										
Johns	Blue Creek	T	3- by 5/8-inch		2,860	2,900	2,910+	11.0	.8	C37556
Do.	do.	T	5/8- by 3/8-inch		2,910+	-	-	8.0	.7	C37557
Do.	do.	T	1/2-inch by 0		2,800	2,910+	-	6.9	.9	C37558
Oswago	do.	T	3- by 5/8-inch		2,840	2,870	2,910+	10.8	.7	B19425
Do.	do.	T	5/8- by 1/4-inch		2,840	2,910+	-	7.3	.8	B19426
Do.	do.	T	5/8-inch by 0		2,880	2,910+	-	6.9	.8	B19427
Do.	do.	T	1/4-inch by 0		2,850	2,910+	-	6.3	.6	B19428
Kimberly										
Kimberly No. 2	Black Creek	M		4	2,230	2,360	2,500	5.1	.7	83582 to 83585
Kimberly No. 3	Jefferson	M		5	1,980	2,200	2,270	9.1	3.1	83575 to 83579
Leeds										
Red Diamond	Henry Ellen	M		3	2,500	2,600	2,740	7.9	.6	A87394 to A87396
Do.	Mammoth	T	7-inch lump		2,410	2,600	2,740	6.7	.4	B19028
Do.	do.	T	7- by 3-inch		2,340	2,580	2,730	6.8	.4	B19029
Do.	do.	T	3- by 1-1/2-inch (W)		2,500	2,710	2,880	6.5	.5	B19030
Do.	do.	T	1-1/2- by 1-inch (W)		2,510	2,700	2,880	6.7	.5	B19031
Do.	do.	T	2-1/4-inch by 0 (W)		2,520	2,670	2,800	7.6	.6	B19032
Do.	do.	T	1- by 3/8-inch (W)		2,520	2,710	2,820	6.9	.5	B19033
Do.	Nunnally	T	7-inch lump		2,620	2,680	2,730	7.6	.7	D49154
Do.	do.	T	7- by 3-inch (W)		2,730	2,780	2,840	9.3	.7	D49155
Do.	do.	T	3- by 1-1/2-inch (W)		2,730	2,840	2,890	12.1	.7	D49156
Do.	do.	T	1-1/2- by 1/2-inch (W)		2,650	2,750	2,840	11.1	.9	D49157
Do.	do.	T	1/2-inch by 0 (W)		2,680	2,750	2,840	11.6	1.0	D49158
Do.	Thompson	T	7-inch lump		2,050	2,180	2,520	4.1	.9	D48385
Do.	do.	T	7- by 3-inch (W)		2,050	2,110	2,340	4.6	.9	D48386
Do.	do.	T	3- by 1-1/2-inch (W)		2,030	2,130	2,440	3.8	1.1	D48387
Do.	do.	T	1-1/2- by 1/2-inch (W)		2,100	2,230	2,470	6.0	1.1	D48388
Do.	do.	T	1/2-inch by 0 (W)		2,050	2,210	2,520	8.1	1.5	D48389
Red Diamond No. 2	Mammoth (Middle Bench)	M		3	2,310	2,460	2,650	7.5	.5	B19035 to B19037
Lewisburg										
Greenwood	Black Creek	T	1-1/4-inch lump		2,670	2,790	2,900	5.4	.8	B20482
Do.	do.	T	1-1/4-inch by 0		2,580	2,760	2,900	13.5	.8	B20483
Greenwood No. 3	do.	M		3	2,740	2,830	2,910+(2) 2,840 (1)	4.1	.8	B20341 to B20343
Lewisburg	Mary Lee	M		1	2,570	2,690	2,800	15.7	1.0	A49559
Lindberg										
Lindberg No. 1	Pratt	T	Run-of-mine		2,140	2,440	2,600	11.8	2.4	B19983
Do.	do.	M		3	2,160	2,460	2,640	8.2	2.4	B19977 to B19979

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Mulga										
Mulga	do.	M		7	2,080	2,410	2,570	6.3	1.8	A52467 to A52473
New Castle										
New Castle No. 2	New Castle	M		3	2,140	2,400	2,510	16.2	2.2	A15737 to A15739
New Castle No. 6	do.	M		5	2,230	2,440	2,600	14.1	2.1	80099 to 80103
Tutwiler	Mary Lee	M		1	2,910+	-	-	14.1	.8	E10471
Overton										
Overton No. 1	Bragg	T	5- by 3-inch		2,040	2,210	2,440	4.0	1.2	A38195
Do.	Nunnally	M		3	2,040	2,310	2,470	9.6	1.5	A26362 to A26364
Do.	Bragg	T	5-inch lump		1,870	2,090	2,240	4.7	1.1	A38196
Do.	do.	T	3-inch by 0 (W)		2,050	2,410	2,520	8.6	1.6	A38242
Overton No. 2	Nunnally (Upper)	M		5	2,290	2,400	2,540	13.7	.7	A18207 to A18211
Do.	do.	T	3-inch lump		2,510	2,650	2,770	12.8	.8	A38241
Do.	do.	T	3-inch by 0		2,330	2,540	2,710	15.8	1.0	A38270
Palos										
Risco	Mary Lee	M		5	2,530	2,660	2,710	12.2	1.0	86868 to 86872
Porter										
Porter	do.	T	3-inch lump		2,560	2,710	2,860	10.5	1.0	B19685
Do.	do.	T	3- by 1-1/2-inch (W)		2,680	2,840	2,910+	10.6	.8	B19686
Do.	do.	T	1-1/2-inch by 0 (W)		2,650	2,790	2,910+	10.7	.8	B19687
Porter No. 2	do.	M		3	2,520	2,700	2,850	12.9	1.2	B19678 to B19680
Powhatan										
Powhatan No. 1	do.	M		4	2,610	2,660	2,750	12.1	.8	A86938 to A86941
Praco										
Praco	do.	T	4- by 1-1/4-inch (W)		2,780	2,870	2,910+	10.5	.9	D60927
Pratt City										
Allan	do.	M		3	2,660	2,790	2,910	11.8	.8	B19207 to B19209
Do.	do.	T	Run-of-mine		2,460	2,600	2,790	14.4	1.0	B19214
Hamilton	do.	T	Run-of-mine (W)		2,660	2,790	2,890	10.0	.8	B18263
Do.	do.	T	1-1/4-inch by 0 (W)		2,460	2,650	2,790	19.1	.9	B18264
Do.	do.	M		5	2,590	2,730	2,800	8.8	.8	83683 to 83687
Lacey	America	M		3	2,780	2,830	2,910+	9.5	1.2	B19382 to B19384
Do.	do.	T	Run-of-mine		2,350	2,590	2,670	10.5	1.5	B19900
Wylam No. 8	do.	M		2	2,420	2,480	2,570	4.0	1.2	83790 and 83794
Do.	Pratt	M		3	2,230	2,420	2,500	6.4	1.1	83791 to 83793
Quinton										
Labuca	Mary Lee	T	3-inch lump		2,330	2,500	2,660	12.2	1.6	B15433
Do.	do.	T	3-inch by 0 (W)		2,460	2,620	2,720	15.5	1.5	B15434
Do.	do.	T	Run-of-mine (W)		2,520	2,650	2,750	14.9	1.3	B16948
Sayre										
Sayre	do.	M		6	2,510	2,660	2,800+(2) 2,780 (4)	13.7	1.1	81650 to 81655
Sayreton										
Sayreton No. 1	do.	M		4	2,700	2,780	2,840	10.0	.7	A60145 to A60148
Do.	do.	M		3	2,490	2,610	2,770	12.2	.9	B25356 to B25358
Sayreton No. 2	do.	M		4	2,560	2,620	2,770	10.7	.8	A88665 to A88668
Warrior										
Beltona	Jefferson	M		5	2,270	2,380	2,450	6.2	3.0	83311 to 83315
Do.	Black Creek	T	Run-of-mine		2,430	2,600	2,770	6.3	.7	B12601
Langley	do.	M		3	2,430	2,610	2,660	2.4	.7	81929 to 81931
Pritchett	Jefferson	M		5	2,170	2,310	2,380	7.3	3.6	83783 to 83787
Wylam										
Wylam No. 5	Pratt	M		5	2,070	2,260	2,350	5.4	1.7	83721 to 83725
Wylam No. 8	do.	M		5	2,260	2,450	2,710	5.9	1.8	A77458 to A77462

1/ M, mine sample; T tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
Marengo County										
(Landrum Creek)										
(Outcrop on Creek)	-	M		1	1,940	2,000	2,040	11.9	3.5	D34078
(Outcrop in Ravine)	-	M		1	2,000	2,050	2,230	6.9	3.8	D34558
Marion County										
Brilliant										
Brilliant	Jefferson	T	5-inch lump		2,070	2,310	2,510	3.0	1.1	B17158
Do.	do.	T	5- by 3-inch		1,940	2,210	2,470	3.7	1.4	B17159
Do.	do.	T	3- by 1-1/2-inch (W)		1,910	2,200	2,470	3.4	1.5	B17160
Do.	do.	T	1-1/2-inch by 0 (W)		2,010	2,190	2,430	3.4	1.2	B17161
Do.	Black Creek	T	6-inch lump		2,340	2,440	2,760	1.9	.7	E19376
Do.	do.	T	6- by 3-inch		2,320	2,380	2,680	2.2	.8	E19377
Do.	do.	T	3- by 1-1/2-inch (W)		2,330	2,390	2,570	1.8	.8	E19378
Do.	do.	T	1- by 1/16-inch (W)		2,330	2,400	2,560	2.3	.7	E19379
New River	do.	M		5	2,250	2,350	2,600	2.7	1.2	A83233 to A83237
Do.	do.	M		3	2,220	2,350	2,440	3.3	.9	C52178 to C52180
Wood Burleson	do.	T	6-inch lump		2,420	2,470	2,680	2.2	.6	D49600
Do.	do.	T	6- by 2-inch		2,210	2,360	2,570	3.5	.8	D49601
Do.	do.	T	2-inch by 0		2,520	2,570	2,660	7.0	.8	D49602
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,310	2,440	2,680	2.4	.8	D49603
Do.	do.	T	6-inch lump		2,420	2,490	2,730	2.3	.7	D45286
Do.	do.	T	6- by 2-inch		2,380	2,420	2,620	2.2	.8	D45287
Do.	do.	T	2-inch by 0		2,260	2,360	2,520	4.7	.8	D45288
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,210	2,360	2,590	3.5	.8	D45289
Glen Allen										
Pass	do.	T	Run-of-mine		2,150	2,260	2,520	7.6	1.4	D46139
Pate	do.	T	3-1/2-inch lump		2,230	2,350	2,600	2.2	.8	E9009
Do.	do.	T	3-1/2- by 2-3/4-inch		2,130	2,190	2,450	3.0	.9	E9010
Do.	do.	T	2-3/4-inch by 0		2,080	2,290	2,550	5.4	.9	E9011
Do.	do.	T	2-3/4-inch by 0 (W)		2,140	2,250	2,530	2.7	.9	E9012
Winfield										
Box No. 1	do.	T	2-inch lump		2,220	2,480	2,650	2.2	.8	E53654
Do.	do.	T	2-inch by 0		2,220	2,610	2,690	3.6	.7	E53655
New River	do.	T	5-inch lump		2,220	2,290	2,610	2.8	1.1	A83308
Do.	do.	T	5- by 3-inch		2,210	2,300	2,600	2.6	1.1	A83309
Do.	do.	T	3- by 1-1/2-inch		2,190	2,310	2,580	2.8	1.2	A83310
Do.	do.	T	1-1/2-inch by 0		2,120	2,220	2,530	3.5	1.3	A83311
North Alabama Coal Co. No. 1	do.	T	3- by 1-1/2-inch		2,030	2,160	2,420	4.7	1.4	D80838
Do.	do.	T	1-1/2-inch by 0		2,380	2,590	2,780	15.6	1.0	D80839
St. Clair County										
Acmar										
Acmar No. 1	Henry Ellen	T	6-inch lump		2,310	2,470	2,610	11.9	1.7	A37912
Acmar No. 2	do.	T	do.		2,310	2,440	2,690	10.3	.6	A37913
Acmar No. 3	do.	M		3	2,450	2,650	2,740	12.4	1.0	A27479 to A27481
Do.	do.	T	6-inch lump		2,360	2,590	2,730	9.9	.9	A37914

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Acmar No. 5	do.	T	do.		2,330	2,550	2,700	8.8	1.0	A37939
Do.	do.	M		4	2,200	2,400	2,580	16.7	1.5	A87145 to A87148
Acmar No. 8	Mammoth No. 2	M		3	2,400	2,550	2,770	6.1	.5	C53358 to C53360
Do.	Mammoth No. 3	M		3	2,710	2,770	2,910+(1) 2,790 (2)	13.6	.6	C53362 to C53364
Acmar D	"D"	M		3	2,130	2,230	2,400	5.4	1.0	B20792 to B20794
Do.	do.	T	8-inch lump		2,280	2,380	2,500	5.5	.7	B20799
Do.	do.	T	8- by 3-inch		2,160	2,310	2,500	5.3	.8	B20800
Do.	do.	T	3-inch by 0 (W)		1,990	2,190	2,480	6.1	.8	B21001
Margaret No. 12	Margaret	T	Run-of-mine (W)		2,100	2,310	2,650	7.3	1.6	D48755
New Acton	Helena	M		4	1,820	1,920	2,070	5.1	1.0	84944 to 84947
Margaret										
Margaret No. 2	Margaret	T	4-inch lump		2,050	2,100	2,420	8.4	2.2	D48756
Do.	do.	T	4- by 3/8-inch (W)		2,100	2,260	2,570	7.4	2.0	D48757
Do.	do.	T	3/8-inch by 0 (W)		2,290	2,510	2,770	7.5	1.4	D48758
Margaret No. 3	Harkness	T	6-inch lump		1,930	2,120	2,390	7.8	3.0	A38194
Margaret No. 4	do.	T	5-inch lump		1,880	2,280	2,500	7.0	2.4	A38162
Margaret No. 5	do.	M		5	1,950	2,110	2,200	8.9	2.1	84991 to 84995
Do.	do.	M		3	1,970	2,270	2,400	9.2	2.1	A26844 to A26846
Do.	do.	T	6-inch lump		2,000	2,150	2,300	9.7	2.2	A38077
Margaret No. 6	do.	M		4	2,090	2,280	2,580	10.3	2.7	A87462 to A87465
Pell City										
Brewer	Brewer	M		1	2,910+	-	-	39.2	1.5	C65798
Brown	Fairview	M		1	2,240	2,510	2,650	14.6	2.6	C58176
Do.	do.	M		2	2,190	2,330	2,590	20.1	.7	C59047 and C59048
Coosa Coal Co. No. 7	Hammond	M		3	2,560	2,700	2,910+(1) 2,720 (2)	12.2	1.2	C65799 to C65801
(Outcrop)	Fairview	M		2	2,080	2,210	2,540	13.1	2.1	C60814 and C60815
<u>Shelby County</u>										
Aldrich										
Aldrich	Montevallo	M		3	2,170	2,280	2,350	7.7	.8	A28264 to A28266
Mary Elizabeth	do.	T	4-inch lump		2,220	2,340	2,400	5.6	.7	B15676
Do.	do.	T	4- by 2-1/4-inch		2,300	2,420	2,530	5.6	.7	B15677
Do.	do.	T	2-1/4- by 1-inch (W)		2,180	2,340	2,390	6.1	.8	B15678
Do.	do.	T	1-inch by 0 (W)		2,020	2,190	2,340	8.8	1.1	B15679
Do.	do.	M		3	2,210	2,380	2,510	7.5	.7	B15781 to B15783
Birmingham										
Pen's Wadsworth	Wadsworth	M		1	2,170	2,230	2,470	6.5	.8	B64516
Boothton										
Boothton No. 1	Gholson	M		3	2,090	2,150	2,190	5.0	.8	A30443 to A30445
Boothton No. 2	Clark	M		3	2,150	2,240	2,290	8.6	.8	A30447 to A30449
Boothton No. 3	Gholson	M		1	2,410	2,470	2,570	3.9	.6	C55451
Boothton No. 4	Clark	M		1	2,220	2,260	2,480	5.3	.5	C55450
Coalmont										
Coalmont No. 2	do.	M		4	2,140	2,230	2,400	10.6	.7	80427 to 80430
Coalmont No. 4	Thompson	M		4	2,100	2,280	2,460	16.9	1.2	80432 to 80435
Helena										
Acton No. 4	Black Shale	T	3-1/2-inch lump		2,020	2,110	2,340	3.4	1.4	E39837
Do.	do.	T	3-1/2- by 1-1/2-inch		2,160	2,330	2,390	2.3	1.1	E39838
Do.	do.	T	1-1/2- by 1/8-inch (W)		2,080	2,210	2,340	2.7	1.3	E39839
Mossboro	do.	M		3	1,940	2,080	2,150	2.5	.6	85800 to 85802
Do.	do.	M		3	1,990	2,120	2,220	7.1	.8	A19257 to A19259
Do.	Buck	M		4	2,100	2,180	2,250	4.8	.8	A79184 to A79187
Mossboro No. 2	do.	T	Run-of-mine		2,050	2,090	2,330	6.0	.8	A81509
Do.	do.	T	4-inch lump		2,180	2,260	2,370	4.8	.8	A81510

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
Shelby County (Con.)										
Helena										
Mossboro No. 2	Buck	T	4- by 1-inch		1,990	2,090	2,200	4.6	.7	A81511
Do.	do.	T	1-inch by 0		2,130	2,200	2,460	7.7	.7	A81512
Paramount	Helena	T	3-1/2-inch lump		2,260	2,400	2,600	6.9	.4	B18640
Do.	do.	T	3-1/2-inch by 0 (W)		2,240	2,400	2,610	8.1	.4	B18641
Red Feather	do.	T	5-inch lump		2,680	2,800	2,870	4.8	.5	D48046
Do.	do.	T	5- by 1-1/2-inch		2,570	2,730	2,910+	12.7	.4	D48047
Do.	do.	T	1-1/2-inch by 0 (W)		2,680	2,800	2,870	8.4	.4	D48048
Do.	Helena (Top Seam)	T	5-inch lump		2,680	2,780	2,840	5.5	.4	D49471
Do.	do.	T	5- by 1-1/2-inch		2,680	2,780	2,890	10.7	.3	D49472
Do.	do.	T	1-1/2-inch by 0		2,680	2,780	2,890	9.8	.3	D49473
Roebuck No. 3	Helena	M		4	2,400	2,610	2,710	10.8	.4	80488 to 80491
Roebuck No. 4	Thompson	M		4	2,030	2,140	2,320	8.8	1.3	80483 to 80486
Maylene										
Maylene No. 2	Black Shale	T	Run-of-mine		2,030	2,210	2,470	6.1	.7	D48754
Montevallo										
Dogwood	Montevallo	T	5-inch lump		2,250	2,360	2,390	4.8	.5	B19896
Do.	do.	T	5- by 3-inch (W)		2,270	2,380	2,420	5.3	.5	B19897
Do.	do.	T	3- by 1-1/2-inch (W)		2,280	2,400	2,430	5.6	.5	B19898
Do.	do.	T	1-1/2-inch by 0 (W)		2,010	2,070	2,240	9.7	.5	B19899
Paramount										
Paramount	Helena	M		3	2,250	2,440	2,630	8.6	.4	B18719 to B18721
Straven										
Straven	Montevallo	M		5	2,010	2,100	2,180	7.9	.9	81933 to 81937
Underwood										
Dogwood No. 1	do.	M		3	2,220	2,280	2,360	7.7	.6	C52635 to C52637
Dogwood No. 3	do.	M		2	2,260	2,320	2,450	8.4	.6	C52639 and C52640
Sumter County										
York										
Prospect	-	M		1	1,900	2,000	2,210	12.1	3.9	D34079
Tuscaloosa County										
Brookwood										
Center	Milldale	T	Run-of-mine		2,170	2,540	2,620	6.7	1.3	E7922
Mitchell No. 2	do.	T	do.		2,100	2,230	2,450	6.5	1.7	D41255
Mitchell No. 3	Brookwood	T	do.		2,700	2,820	2,910+	13.2	1.4	E36288
New Slope	do.	M		3	2,600	2,850	2,900	13.5	1.0	82266 to 82268
Do.	Milldale	M		3	2,550	2,670	2,730	4.6	.9	82269 to 82271
Valley No. 9	Carter	M		3	2,560	2,730	2,800	8.1	.9	82260 to 82262
Valley No. 24	Milldale	M		1	2,280	2,390	2,510	5.3	1.1	82264
Valley No. 25	do.	M		1	2,280	2,450	2,570	5.3	1.2	82263
Cedar Cove										
Cedar Cove	Carter	M		1	2,000	2,320	2,440	13.5	2.4	A57723
Snider	do.	M		2	2,050	2,160	2,430	5.5	3.0	C51474 and C51475

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Coaling										
Cedar Cove No. 1	Milldale	M		3	2,010	2,150	2,270	6.9	2.4	86422 to 86424
Cedar Cove No. 2	do.	M		1	2,080	2,220	2,280	4.3	2.2	86421
Cordova (Walker County)										
Herron	America	T	Run-of-mine		2,660	2,780	2,910+	15.9	1.8	E37799
Peterson										
Abston	Milldale	M		2	2,330	2,410	2,590	6.4	1.1	C51477 and C51478
Do.	Brookwood	M		1	2,800	2,860	2,910+	9.9	1.1	C51479
Peterson	Carter	T	Run-of-mine		1,970	2,080	2,380	4.9	1.3	D45488
Do.	Red Ash	T	do.		2,050	2,340	2,600	3.0	1.2	D45487
Do.	White Ash	T	do.		2,860	2,910+	-	13.3	1.3	D45486
Rock Castle										
Yolande No. 6	Black Creek	M		1	1,950	2,220	2,600	7.9	2.2	B22360
Searles										
Searles No. 2	Brookwood	M		2	2,640	2,770	2,800	14.5	1.3	A29692 and A29694
Do.	Milldale	M		3	2,080	2,310	2,420	6.7	1.6	A29691 and A29695
Searles No. 5	Brookwood	M		3	2,690	2,800+(1) 2,770 (2)	-	12.6	1.1	A29430 to A29432
Slope	do.	M		4	2,660	2,860	2,940	10.1	1.1	82448 to 82451
Do.	Milldale	M		4	2,170	2,740+(1) 2,510 (3)	- 2,610 (3)	5.1	1.0	82453 to 82456
Yolande										
Yolande No. 4	Blue Creek	M		4	2,290	2,770	2,840+(2) 2,930 (2)	9.5	.7	80478 to 80481
Yolande No. 5	Black Creek	M		1	1,980	2,380	2,520	8.4	2.0	B47234
Walker County										
America										
New America No. 6	America	M		3	2,440	2,520	2,660	9.2	2.1	C37004 to C37006
Pratt	Pratt	T	3- by 1-1/2-inch (W)		2,650	2,690	2,860	9.3	1.4	B33002
Do.	do.	T	1-1/2-inch by 0 (W)		2,640	2,680	2,850	8.4	1.3	B33003
Do.	do.	T	Run-of-mine		2,570	2,640	2,860	8.2	1.4	B34163
Benoit										
Benoit	Mary Lee	M		4	2,710	2,850	2,900	15.3	1.0	81951 to 81954
Do.	Mary Lee (Top Bench)	M		3	2,790	2,880	2,930+(1) 2,920 (2)	13.4	.7	A79860 to A79862
Carbon Hill										
Galloway No. 11	Jagger	M		3	2,490	2,660	2,810	15.7	.8	A32084 to A32086
Galloway No. 21	do.	M		1	2,910+	-	-	6.5	.6	D15385
Do.	do.	T	5-inch by 0		2,620	2,780	2,890	13.2	1.0	D63023
Hope	Black Creek	T	6-inch lump		2,180	2,260	2,600	5.7	1.7	D45693
Do.	do.	T	6- by 3-inch		2,140	2,250	2,600	4.5	1.8	D45694
Do.	do.	T	3- by 1 1/2-inch (W)		2,130	2,230	2,570	4.1	1.8	D45695
Do.	do.	T	1-1/2-inch by 0 (W)		2,130	2,230	2,600	4.7	1.7	D45696
Do.	do.	T	1-1/2- by 1/16-inch (W)		2,130	2,260	2,520	4.5	1.6	D45697
Hope No. 1	do.	T	6-inch lump		2,120	2,220	2,490	4.9	1.8	C34391
Do.	do.	T	6- by 3-inch		2,110	2,210	2,520	4.7	2.0	C34392
Do.	do.	T	3- by 1-1/2-inch (W)		2,100	2,260	2,490	5.4	1.8	C34393
Do.	do.	T	1-1/2- by 1/16-inch (W)		2,100	2,280	2,500	6.5	1.7	C34394
Kershaw	Mary Lee	T	6-inch lump		2,540	2,760	2,910+	13.0	.8	B20229
Do.	do.	T	6-inch by 0		2,540	2,760	2,910+	13.6	.8	B20230
Kershaw No. 2	do.	M		1	2,520	2,740	2,830+	12.4	.9	B20925
Kershaw No. 4	do.	M		2	2,710	2,880	2,910+	12.7	.8	B20926 and B20927
Mill Creek	do.	T	6-inch lump		2,450	2,670	2,880	13.6	.7	B20231
Do.	do.	T	6- by 3-inch		2,490	2,690	2,890	13.2	.7	B20232
Do.	do.	T	3- by 1-1/2-inch (W)		2,700	2,800	2,880	13.9	.7	B20345

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
Walker County (Con.)										
Carbon Hill										
Mill Creek	Mary Lee	T	1-1/2-inch by 0 (W)		2,530	2,700	2,860	13.4	.6	B20346
Warrior River	do.	T	6-inch lump		2,320	2,450	2,620	14.4	1.4	B20113
Do.	do.	T	6- by 3-inch		2,320	2,490	2,670	14.2	1.4	B20114
Do.	do.	T	3- by 1-1/2-inch (W)		2,310	2,450	2,670	14.5	1.7	B20115
Do.	do.	T	1-1/2-inch by 0 (W)		2,240	2,370	2,590	16.8	1.3	B20116
Do.	do.	M		3	2,390	2,480	2,700	14.4	1.4	C52094 to C52096
Do.	do.	T	6- by 4-inch		2,570	2,680	2,730	14.3	1.3	D63085
Do.	do.	T	4- by 1-1/2-inch		2,570	2,700	2,780	14.2	1.3	D63086
Warrior River No. 2	do.	M		3	2,300	2,410	2,610	13.5	1.2	A90158 to A90160
Warrior River No. 3	do.	M		3	2,160	2,280	2,550	14.7	1.7	A90162 to A90164
Do.	do.	T	6-inch lump		2,370	2,430	2,710	14.6	1.5	C37001
Do.	do.	T	6- by 3-inch		2,380	2,480	2,730	14.6	1.6	C37002
Do.	do.	T	3-inch by 0 (W)		2,420	2,520	2,780	14.4	1.4	C37003
Coal Valley										
Coal Valley	do.	M		4	2,240	2,360	2,570	9.9	2.3	80265 to 80268
Coal Valley No. 11	Corona	M		2	2,270	2,340	2,510	10.9	2.3	A70283 and A70284
Coal Valley No. 16B	do.	M		1	2,420	2,570	2,680	9.1	1.9	A70285
DeBardeleben Coal Corp. No. 16	do.	M		5	2,070	2,330	2,450	9.1	2.5	A42610 to A42614
Do.	do.	M		5	2,050	2,400	2,530	8.6	2.7	A43634 to A43638
Colta										
Flat Creek No. 2	Mary Lee	M		3	2,560	2,740	2,820+(1) 2,850 (2)	12.9	1.0	A29980 to A29982
Gamma	do.	T	3- by 1-inch		2,850	2,920+	-	14.2	.7	B16723
Do.	do.	T	3-inch by 0 (W)		2,790	2,920+	-	15.2	.8	B16724
Do.	do.	T	1/4-inch by 0 (W)		2,780	2,920+	-	9.7	.8	B16725
Do.	do.	M		5	2,700	2,830	2,920+(3) 2,900 (1)	13.7	.8	B16813 to B16817
Cordova										
Barney	do.	M		1	2,630	2,800	2,860	12.9	.8	86970
Do.	do.	M		3	2,570	2,720	2,800	12.2	.7	87202 to 87204
Do.	do.	T	8- by 3-inch		2,730	2,820	2,910+	13.6	.9	B18063
Do.	do.	T	3- by 2-inch		2,770	2,850	2,920+	13.8	.8	B18064
Do.	do.	T	2-inch by 0 (W)		2,710	2,810	2,910+	13.7	.8	B18065
Do.	do.	T	6- by 3-inch		2,770	2,840	2,910+	17.2	.9	C34824
Do.	do.	T	3- by 1-1/2-inch (W)		2,790	2,860	2,910+	14.2	.8	C34825
Do.	do.	T	1-1/2-inch by 0 (W)		2,730	2,820	2,910+	14.5	1.0	C34826
Do.	do.	T	Run-of-mine		2,780	2,860	2,910+	13.4	.8	D46997
Do.	do.	T	3- by 1-1/2-inch (W)		2,840	2,910+	-	13.6	.7	D73695
Do.	do.	T	1-1/2-inch by 0 (W)		2,730	2,910+	-	13.4	.8	D73696
Mt. Carmel No. 1	do.	M		3	2,740	2,820	2,870	11.7	.7	87111 to 87113
Mt. Carmel No. 2	do.	M		1	2,740	2,800	2,860	11.6	.7	87115
Corona										
Corona No. 12	Corona	M		2	2,130	2,210	2,340	12.5	2.7	99163 and 99164
Corona No. 20	do.	M		2	2,260	2,310	2,430	10.0	2.6	C67660 and C67661

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Dora										
Dora-Fuel	Mary Lee	M		5	2,760	2,890	2,950	14.5	.7	81945 to 81949
Hull	do.	M		3	1,960	2,200	2,400	21.9	.7	A57592 to A57594
Do.	do.	T	4-inch lump		2,750	2,890	2,910+	12.8	.7	B17000
Do.	do.	T	4-inch by 0 (W)		2,850	2,920+	-	12.7	.8	B17001
Do.	do.	M		4	2,760	2,920+(2) 2,800 (2)	2,920+(2)	12.5	.6	B17352 to B17355
Do.	do.	T	4- by 1-1/2-inch (W)		2,800	2,920	-	12.6	.7	B17361
Do.	do.	T	1-1/2-inch by 0 (W)		2,880	2,910+	-	13.4	.6	B17362
Do.	do.	T	3/4-inch by 0 (W)		2,910+	-	-	11.3	.6	B19901
Do.	do.	T	4-inch lump		2,910+	-	-	14.5	.5	C35369
Do.	do.	T	4- by 1-1/2-inch (W)		2,910+	-	-	13.3	.6	C35370
Do.	do.	T	1-1/2-inch by 0 (W)		2,910+	-	-	14.2	.5	C35371
Do.	do.	T	1/2-inch by 0 (W)		2,910+	-	-	11.4	.7	C35372
Pratt Fuel	do.	M		5	2,610	2,890	2,960	14.6	.6	81939 to 81943
Samoset	do.	T	Run-of-mine		2,640	2,820	2,920+	15.1	.8	B16949
Do.	do.	T	4- by 1-1/2-inch (W)		2,910+	-	-	14.1	.7	D47249
Do.	do.	T	1-1/2-inch by 0 (W)		2,910+	-	-	13.2	.7	D47250
Summit No. 1	Black Creek	M		2	2,240	2,510	2,690	1.8	.8	83006 and 83007
Summit No. 2	do.	M		3	2,380	2,560	2,570	1.9	.7	83009 to 83011
Empire										
Empire	do.	M		4	2,160	2,440	2,600	9.1	1.6	A56886 to A56889
Do.	do.	M		5	2,210	2,500	2,650	3.5	1.1	A70452 to A70456
Do.	do.	T	5-inch lump		2,040	2,390	2,550	2.1	1.1	B16276
Do.	do.	T	5- by 3-inch		2,020	2,400	2,520	2.4	1.0	B16277
Do.	do.	T	3- by 1-1/2-inch (W)		1,990	2,400	2,540	1.9	.9	B16278
Do.	do.	T	1-1/2-inch by 0 (W)		1,950	2,390	2,540	2.3	.9	B16279
Do.	do.	T	1/2-inch by 0 (W)		2,250	2,540	2,650	2.5	.8	B16280
Gamble Mines										
Gamble No. 1	Mary Lee	M		2	2,540	2,740	2,770+(1) 2,820 (1)	11.4	.7	A37776 and A37777
Do.	do.	T	Run-of-mine		2,650	2,780	2,820+	15.4	.8	A37590
Do.	do.	T	6-inch lump		2,690	2,760	2,780+	12.5	.7	A37591
Gamble No. 4	do.	M		2	2,800 (1)	2,820+(2)	-	8.2	.7	A37779 and A37780
Do.	do.	T	6-inch lump		2,720	2,770+	-	11.2	.7	A37699
Do.	do.	T	6-inch by 0		2,650	2,780+	-	15.0	.7	A37700
Gorgas										
America No. 3	America	M		1	2,710	2,780	2,910+	17.1	1.8	D84778
Gorgas	do.	M		1	2,540	2,740	2,910	16.8	1.8	B22264
Do.	Pratt	M		1	2,060	2,440	2,640	10.3	2.4	B22263
Do.	do.	M		6	2,690	2,770	2,910+(1) 2,860 (5)	14.3	1.3	C67559 to C67564
Do.	do.	M		2	2,360	2,610	2,780	11.1	1.4	C66440 and C66441
Winona	do.	M		3	1,930	2,390	2,560	8.1	2.2	80359 to 80361
Do.	America	M		3	2,230	2,600	2,730+(1) 2,680 (2)	11.6	2.1	80349 to 80351
Jasper										
Bankhead	Mary Lee	T	6-inch lump		2,650	2,790	2,910+	14.3	.8	B20225
Do.	do.	T	6- by 3-1/2-inch		2,820	2,910+	-	14.5	.7	B20226
Do.	do.	T	3-1/2- by 1-1/2-inch (W)		2,780	2,880	2,910+	14.7	.7	B20227
Do.	do.	T	1-1/2-inch by 0 (W)		2,650	2,780	2,880	14.7	.7	B20228
Burton	do.	T	5- by 1-1/2-inch		2,910+	-	-	14.1	.6	D63241
Calumet	do.	T	6-inch lump		2,650	2,760	2,880	15.8	.7	B17739
Do.	do.	T	6- by 3-1/2-inch		2,680	2,780	2,900	15.1	.7	B17740
Do.	do.	T	3-1/2-inch by 0		2,620	2,740	2,890	18.0	.7	B17741
Do.	do.	T	3- by 1-1/2-inch (W)		2,620	2,740	2,910	14.8	.7	B17742
Do.	do.	T	1-1/2-inch by 0		2,660	2,780	2,910	16.3	.7	B17743

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
ALABAMA (Con.)										
Walker County (Con.)										
Jasper										
Calumet	Mary Lee	T	Run-of-mine		2,860	2,890	2,910+	15.0	.8	D47482
Marigold	Black Creek	T	6- by 3-inch		2,050	2,440	2,580	4.8	1.3	B60094
Do.	do.	T	1-1/2-inch by 0		2,180	2,440	2,570	4.9	1.3	B60095
Do.	do.	T	6-inch lump		2,130	2,300	2,540	4.2	1.5	C34591
Do.	do.	T	6- by 3-inch		2,160	2,320	2,520	4.7	1.5	C34592
Do.	do.	T	3- by 1-1/2-inch		2,160	2,310	2,510	5.7	1.6	C34593
Do.	do.	T	1-1/4-inch by 0 (W)		2,160	2,310	2,520	4.5	1.4	C34594
Do.	do.	T	6-inch lump		1,990	2,090	2,450	4.7	2.4	D46998
Do.	do.	T	6- by 3-inch		2,000	2,150	2,500	4.8	2.1	D46999
Do.	do.	T	3- by 1-1/2-inch		1,970	2,150	2,500	6.0	2.3	D47000
Do.	do.	T	1-1/2-inch by 0 (W)		2,050	2,180	2,520	4.9	1.9	D47001
Do.	do.	T	1-inch by 0 (W)		2,050	2,180	2,520	5.9	2.3	D47002
Taylor	Mary Lee	T	Run-of-mine		2,890	2,910+	-	14.9	.7	D44403
Taylor Strip	do.	T	do.		2,910+	-	-	15.0	.5	D47947
Do.	do.	T	do.		2,910	2,910+	-	14.6	.6	D62744
Do.	do.	T	do.		2,840	2,910+	-	16.8	.6	D62837
Do.	do.	T	4-inch lump		2,910+	-	-	14.9	.7	D99153
Do.	do.	T	4-inch by 0 (W)		2,880	2,910+	-	13.9	.7	D99154
Do.	do.	T	7- by 2-inch		2,910+	-	-	14.8	.5	E74428
Do.	do.	T	2-inch by 0 (W)		2,910+	-	-	13.9	.6	E74429
Nauvoo										
Jagger	Jagger	M		2	2,130	2,260	2,580	4.5	1.6	C52097 and C52098
Do.	do.	T	5-inch lump		2,910+	-	-	7.0	.8	D46140
Do.	do.	T	5- by 3-inch		2,910+	-	-	7.2	.7	D46141
Do.	do.	T	3- by 1-1/2-inch		2,910+	-	-	7.2	.6	D46142
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	8.0	.9	D46143
Nauvoo	Jefferson	T	6-inch lump		2,150	2,390	2,580	4.5	1.4	B17963
Do.	do.	T	6- by 3-inch		2,020	2,210	2,570	4.5	1.5	B17964
Do.	do.	T	3- by 1-1/2-inch (W)		2,000	2,190	2,530	4.5	1.7	B17965
Do.	do.	T	1-1/2-inch by 0 (W)		1,950	2,260	2,550	6.4	1.6	B17966
Nauvoo No. 2	do.	M		4	2,000	2,290	2,570	4.3	1.6	B18029 to B18032
Oakman										
Coal Valley	Corona	T	5-inch lump		2,100	2,350	2,510	11.2	2.6	B17570
Do.	do.	T	5- by 3-1/2-inch (W)		2,100	2,390	2,560	10.9	2.4	B17571
Do.	do.	T	3-1/2- by 2-inch (W)		2,110	2,400	2,590	10.6	2.4	B17572
Do.	do.	T	2-inch by 0 (W)		2,110	2,390	2,560	10.6	2.5	B17573
Do.	do.	T	3-1/2-inch by 0 (W)		2,100	2,390	2,540	10.2	2.4	B17574
Coal Valley Strip	do.	T	5- by 1-1/2-inch		2,680	2,730	2,840	12.0	2.0	D62657
Do.	do.	T	1-1/2-inch by 0		2,210	2,680	2,780	16.3	2.4	D62743
Jones & Pugh No. 1	do.	T	Run-of-mine		2,140	2,520	2,610	14.6	3.1	D37800
Parrish										
Aldridge Shaft	Mary Lee	T	6- by 3-inch		2,720	2,850	2,920+	15.7	.6	B17744
Do.	do.	T	3-inch by 0 (W)		2,700	2,840	2,920+	15.2	.7	B17745
Do.	do.	T	6- by 3-inch		2,790	2,870	2,910+	18.7	.8	C34754
Do.	do.	T	3- by 1-1/2-inch (W)		2,780	2,850	2,910+	15.1	.8	C34755
Do.	do.	T	1-1/2-inch by 0 (W)		2,780	2,850	2,910+	15.7	.9	C34756

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Do.	do.	M		5	2,770	2,820	2,910+	15.1	.8	C52300 to C52304
Busby	America	T	6- by 1-1/2-inch (W)		2,780	2,890	2,910+	12.1	1.6	D73524
Do.	do.	T	1-1/2-inch by 0 (W)		2,100	2,620	2,840	9.3	1.8	D73525
Lost Creek No. 1	do.	T	Run-of-mine		2,540	2,690	2,810	18.2	2.0	E55356
New America	do.	T	3- by 1-1/2-inch (W)		2,680	2,730	2,840	11.0	1.6	C34827
Do.	do.	T	1-1/2-inch by 0 (W)		2,680	2,730	2,840	12.2	1.6	C34828
Paynes Bend										
Paynes Bend No. 1	Pratt	M		5	2,450	2,530	2,600	6.9	1.5	87206 to 87210
Prospect										
Mammoth	Mary Lee	T	7- by 2-inch		2,910+	-	-	13.2	.7	D71233
Do.	do.	T	5-inch by 0		2,890	2,910+	-	13.4	.8	D71234
Do.	do.	T	4-inch by 0		2,710	2,860	2,910+	11.9	.7	D84805
Do.	do.	T	7- by 2-inch		2,710	2,860	2,910+	12.2	.7	D84806
Do.	do.	T	do.		2,740	2,860	2,910+	12.4	.6	D85376
Do.	do.	T	4-inch by 0 (W)		2,680	2,840	2,910+	12.1	.6	D85377
Sipsey										
Sipsey	Black Creek	M		4	2,200	2,470	2,600	3.6	.9	A57572 to A57575
Sumiton										
Drummond Hollow No. 4	do.	T	3-1/2-inch lump		2,680	2,760	2,890	1.6	.6	D47818
Do.	do.	T	3-1/2- by 1-1/4-inch		2,800	2,910+	-	1.7	.6	D47819
Do.	do.	T	1-1/4- by 1/2-inch (W)		2,750	2,800	2,890	2.9	.6	D47820
Do.	do.	T	1/2-inch by 0		2,620	2,780	2,860	9.8	.7	D47821
Prospect	Jefferson	M		1	2,110	2,200	2,510	4.5	2.4	B94219
Sumiton	Black Creek	T	5-inch lump		2,210	2,380	2,640	1.8	.7	D47483
Do.	do.	T	5- by 3-inch		2,450	2,570	2,680	3.6	.7	D47484
Do.	do.	T	3- by 1-1/2-inch (W)		2,230	2,420	2,570	1.8	.6	D47485
Do.	do.	T	1-1/2-inch by 0 (W)		2,260	2,540	2,680	2.7	.7	D47486
Summit	do.	M		5	2,220	2,430	2,610	2.5	.7	A85876 to A85880
Do.	do.	T	3-inch lump		2,220	2,370	2,620	1.8	.7	A85882
Do.	do.	T	3- by 1-1/2-inch (W)		2,350	2,490	2,730	1.7	.6	A85883
Do.	do.	T	1-1/2-inch by 0 (W)		2,230	2,480	2,620	2.5	.7	A85884
Townley										
Galloway No. 15	Jagger	M		4	2,280	2,580	2,630	15.2	1.7	80119 to 80122
Townley	do.	T	5-inch lump		2,350	2,540	2,770	9.7	1.0	B17575
Do.	do.	T	5- by 4-1/2-inch		2,390	2,580	2,790	11.4	1.3	B17576
Do.	do.	T	4-1/2-inch by 0 (W)		2,590	2,700	2,810	12.5	1.3	B17577
Do.	Mary Lee	T	4- by 1-1/2-inch		2,780	2,890	2,910+	12.7	.7	D40050
Do.	do.	T	1-1/2-inch by 0 (W)		2,730	2,860	2,910+	12.3	.8	D40051
Do.	Corona	T	4- by 1-1/2-inch		2,150	2,180	2,520	8.5	3.9	D44148
Do.	do.	T	1-1/2-inch by 0 (W)		2,000	2,150	2,470	9.3	3.8	D44149
Townley No. 1	Jagger	M		5	2,260	2,410	2,540	14.3	1.5	A21139 to A21143

ALASKA

Northern Alaska Region										
Ikpikpuk River										
Outcrop	-	M		2	2,380	2,510	2,640	13.9	.5	A6847 and A6849
Kiana										
-	-	M		1	2,360	2,560	2,830	20.5	.5	A52083
Killik River										
Outcrop	-	M		1	2,290	2,340	2,360	14.1	.3	A6848
Kukpowruk										
Outcrop	-	M		3	2,340	2,420	2,670	4.9	.1	C61130 to C61132
Meade River										
Meade River Prospect	-	M		2	2,140	2,210	2,420	4.6	.7	C27944 and C27945

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALASKA (Con.)										
Northern Alaska Region (Con.)										
Peard Bay										
Peard Bay Outcrop	-	M		1	2,460	2,570	2,850	12.0	.4	C27946
Prospect Kugrua Inlet	-	M		1	2,470	2,570	2,840	7.7	.7	C27948
Point Lay										
Prospect Tepsako River	-	M		1	2,300	2,430	2,470	3.1	.4	C61139
Wainwright										
Kuk River No. 1	-	T	Run-of-mine		2,050	2,140	2,810	2.7	.3	C61137
Kuk River No. 2	-	M		2	2,450	2,570	2,780	2.9	.4	C61133 and C61134
Kuk River No. 3	-	M		1	2,080	2,200	2,650	3.1	.3	C61135
Kuk River Outcrop	- (Bottom)	M		1	2,150	2,190	2,290	3.7	.4	C27947
Do.	- (Top)	M		1	2,230	2,590	2,670	4.4	.5	C27949
Jarvis Creek Field										
Gerstle River District										
Outcrop S.E. of Donnely	A	M		1	2,580	2,660	2,710	13.0	.3	C71481
Yukon Region										
Broad Pass Field										
Broad Pass										
Prospect	-	M		2	2,320	2,370	2,560	19.7	.3	D94465 and D94466
Colorado Station										
Colorado Station	-	T	Run-of-mine		2,800	2,860	2,910+	17.6	.5	D93273
Costello Creek	Dunkle	M		2	2,430	2,470	2,660	9.3	.7	C1804 and C1806
Do.	Stevens	M		1	2,020	2,090	2,480	7.6	.6	C1805
Do.	Billie	M		1	2,480	2,520	2,800	9.3	.6	C1807
Do.	-	M		1	2,680	2,730	2,840	15.6	.6	D90444
Do.	-	M		1	2,450	2,490	2,590	9.0	.4	D93272
Dunkle Camp Creek	No. 8	M		1	2,180	2,220	2,440	8.5	.7	B67785
Galena										
Galena Outcrop	-	M		1	2,290	2,370	2,640	2.8	.4	C36293
Kaltag										
Adolph Muller	-	M		1	2,910+	-	-	23.1	.5	A15869
Kaltag Prospect	-	M		1	2,680	2,740	2,910	9.5	.4	C36295
Mt. McKinley National Park										
Alaska Road Commission	-	M		1	2,060	2,230	2,520	7.3	.6	B16186
Prospect	-	M		1	2,150	2,240	2,340	9.6	.3	94109
Nenana Field										
Healy Fork										
Arctic Coal Co.	Basal	M		1	2,360	2,400	2,440	13.4	.5	E44121
Do.	do.	T	Run-of-mine		2,200	2,260	2,490	8.6	.3	E63869
Cripple Creek	No. 1	M		3	2,250	2,350	2,450	11.5	.3	D64036 to D64038
Do.	do.	T	Run-of-mine		2,500	2,550	2,730	12.4	.2	D77713

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Diamond	-	M		1	2,190	2,260	2,320	8.0	.3	C83485
Diamond Coal Co.	-	M		2	2,250	2,420	2,480	9.2	.4	D4909 and D4910
Healy Creek	-	M		2	2,290	2,360	2,480	12.5	.4	D4907 and D4908
Outcrop	No. 6	M		2	2,190	2,260	2,490	17.8	.3	C30893 and C30894
Do.	No. 3	M		1	2,420	2,470	2,510	6.2	.2	C30892
Do.	do.	M		1	2,520	2,560	2,610	5.5	.1	C30895
Roth-Taylor	Mammoth	M		1	2,370	2,410	2,430	4.6	.1	A11088
Usibelli	No. 1	T	6- by 2-inch		2,450	2,490	2,700	10.9	.2	D77711
Do.	do.	T	2-inch by 0		2,330	2,390	2,620	9.7	.2	D77712
Do.	do.	T	Run-of-mine		2,100	2,180	2,420	7.6	.2	E65840
Do.	do.	T	2- by 5/8-inch		2,100	2,190	2,340	7.6	.2	E65841
Do.	do.	T	Run-of-mine		2,120	2,330	2,510	9.1	.3	E65842
Do.	do.	T	6- by 2-inch		2,130	2,270	2,460	10.1	.3	E65843
Do.	do.	T	Run-of-mine		2,190	2,360	2,520	9.6	.2	E65844
Lignite Creek										
Mulato Prospect	-	M		1	2,230	2,360	2,760	5.0	.9	C36294
Lignite										
Outcrop Teklanika River	No. 3	M		1	2,340	2,380	2,470	13.5	.4	C64415
Do.	No. 4	M		1	2,110	2,160	2,260	8.0	.3	C64416
Outcrop Santuary River	Upper	M		1	2,420	2,460	2,520	18.5	.4	C64417
Do.	Lower	M		1	2,470	2,510	2,560	19.1	.4	C64418
Outcrop Susnana River	-	M		1	2,130	2,190	2,290	8.2	.3	C64419
Outcrop Savage River	Top	M		1	2,380	2,440	2,470	19.6	.4	C64420
Outcrop Savage River	Middle	M		1	2,390	2,420	2,470	20.0	.4	C64421
Do.	Lower	M		1	2,480	2,540	2,580	10.2	.3	C64422
Do.	-	M		1	2,820	2,910+	-	22.3	.5	C64423
Do.	-	M		1	2,510	2,570	2,620	5.9	.2	C64424
Do.	-	M		1	2,470	2,520	2,580	18.4	.6	C64425
McKinley										
Outcrop Sable Pass	-	M		1	2,260	2,300	2,380	13.6	.5	C64413
Outcrop Toklat River	-	M		1	2,410	2,470	2,520	9.9	.6	C64414
Suntrana										
Suntrana New	"B"	M		1	2,130	2,180	2,230	6.8	.3	C9526
Do.	"C"	M		1	2,380	2,430	2,580	15.8	.3	C9525
Do.	"D"	M		1	2,360	2,400	2,710	16.5	.4	C9530
Do.	"E"	M		1	2,250	2,300	2,500	13.8	.5	C9524
Do.	"F"	M		1	2,280	2,350	2,530	12.0	.3	C9527
Suntrana Old	No. 3	M		1	2,180	2,370	2,440	7.2	.2	B67589
Do.	do.	M		3	2,340	2,390	2,510	6.3	.2	B80608 to B80610
Do.	No. 4	M		1	2,130	2,160	2,370	11.6	.2	C9528
Do.	No. 6	M		1	2,180	2,270	2,400	9.2	.1	C9529
Unalakleet										
Unalaklett	-	M		1	2,060	2,140	2,180	8.2	.5	B64867
Do.	-	M		1	2,090	2,160	2,480	4.7	.4	C36296
Kuskokwim Region										
Nelson Island										
Nelson Island	-	M		4	2,400	2,500	2,680	23.0	.5	C29496 to C29499
Cook Inlet Region										
Cook Inlet Field										
Bluff Point										
Bluff Point	Cooper	M		3	1,950	1,970	2,030	11.8	.4	81606 to 81608
Homer										
Homer Coal Corp.	do.	M		1	2,780	2,840	2,910+	14.5	.5	C61783
Do.	-	M		2	2,040	2,090	2,280	21.5	.4	C61954 and C61955
Outcrop	-	M		1	2,380	2,410	2,440	4.5	.2	C83515

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ALASKA (Con.)										
Cook Inlet Region (Con.)										
Matanuska Field										
Anthracite Ridge										
Prospect	No. 2	M		1	2,250	2,330	2,420	6.5	.6	A3538
Do.	No. 3	M		1	2,230	2,280	2,330	4.2	.3	A3539
Do.	No. 4	M		1	2,240	2,320	2,680	6.5	.6	A3540
Chickaloon										
Chickaloon	No. 1	M		2	2,720	2,830	2,880	16.2	.7	83981 and 83982
Do.	No. 3	M		1	2,150	2,450	2,570	14.2	.6	83174
Do.	do.	M		3	2,060	2,270	2,370	12.5	.7	85745 to 85747
Do.	do.	M		2	1,960	2,100	2,220	9.9	.7	85283 and 85284
Do.	No. 4	M		1	2,660	2,830	2,880	27.8	.5	83983
Do.	No. 5	M		1	2,740	2,850	2,900	30.1	.5	83173
Do.	do.	M		5	2,430	2,600	2,700	16.6	.6	85749 to 85753
Do.	No. 6	M		1	2,240	2,340	2,390	10.1	.8	85285
Do.	No. 8	M		4	2,200	2,410	2,580	17.4	.6	85740 to 85743
Do.	No. 10	M		1	2,200	2,280	2,390	12.5	.7	83984
Do.	do.	M		1	2,740	2,850	2,900	24.0	.6	85755
Coal Creek	Bardin	M		1	2,720	2,830	2,880	23.3	.8	85282
Do.	North Spalding	M		1	2,340	2,450	2,570	5.9	.6	83985
Do.	do.	M		2	2,130	2,360	2,430	16.8	.6	85277 and 85278
Do.	do.	M		2	2,040	2,140	2,210	9.0	.5	85279 and 85280
Do.	do.	M		1	2,390	2,740	-	16.5	.4	80607
Do.	North Tierney	M		2	2,440	2,580	2,640	9.6	.6	83986 and 83987
Do.	Olson	M		1	2,440	2,620	2,740	17.7	.6	85640
Eska										
Eska	Upper Shaw	M		1	2,400	2,570	2,890	11.3	.5	B67588
Do.	-	M		1	2,040	2,070	2,260	11.6	.4	C61784
Mrak	-	M		1	2,870	2,910+	-	14.2	.9	E1851
Do.	No. 4	T	2-1/4-inch by 0		2,660	2,790	2,910+	16.9	.4	E69152
Houston										
Houston	-	M		2	2,430	2,540	2,690	19.0	.4	D3088 and D3089
Jonesville										
Evan Jones	No. 00	M		1	2,050	2,310	2,470	22.5	.5	A11087
Do.	No. 0	M		1	2,720	2,740	2,800	24.5	.4	A11083
Do.	No. 3	M		1	2,400	2,580	2,680	19.7	.3	A11084
Do.	No. 5	M		1	2,150	2,370	2,460	22.1	.3	A11086
Do.	No. 6	M		1	2,680	2,740	-	15.6	.3	A11085
Do.	No. 8	M		1	2,960+	-	-	19.8	.5	A98201
Do.	do.	M		2	2,650	2,790	2,920+(1) 2,830 (1)	16.4	.5	B25076 and B25077
Do.	do.	M		1	2,910+	-	-	19.1	.3	B56286
Do.	No. 10	M		1	2,910+	-	-	22.8	.4	B56287
Do.	No. 3	T	3- by 1-1/2-inch (W)		2,450	2,490	2,700	27.1	.2	D92251
Do.	do.	T	1-1/2-inch by 0 (W)		2,520	2,600	2,780	22.6	.2	D92252
Do.	do.	T	do.		2,680	2,750	2,890	16.6	.2	D92253
Do.	No. 5	T	3- by 1-1/2-inch (W)		2,910+	-	-	21.3	.1	D92256

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Do.	do.	T	1-1/2-inch by 0 (W)		2,910+	-	-	19.7	.3	D92257
Do.	do.	T	do.		2,890	2,910+	-	17.9	.2	D92258
Do.	No. 6	M		1	2,840	2,910+	-	14.2	.3	E128
Do.	No. 7	M		1	2,440	2,610	2,810	8.6	.3	E129
Do.	No. 7A	M		1	2,780	2,850	2,910+	9.1	.3	E130
Moose Creek (Station)										
Baxter	"Big"	M		3	2,140	2,200	2,250	7.5	.3	85511 to 85513
Buffalo	No. 1	M		1	2,720	2,800	2,910+	13.0	.5	B98926
Do.	No. 2	M		2	2,630	2,730	2,910+(1) 2,860 (1)	6.9	.4	B98927 and B98928
Do.	No. 3	M		2	2,880+(1) 2,640 (1)	- 2,710 (1)	- 2,880 (1)	5.7	.4	B98929 and B98930
Do.	No. 4	M		1	2,310	2,340	2,660	5.8	.3	B98931
Do.	No. 5	M		3	2,700	2,770	2,870	23.6	.3	B98932 to B98934
Do.	No. 6	M		1	2,860	2,910+	-	35.4	.3	B98935
Do.	No. 7 (Lower Bench)	M		1	2,910+	-	-	12.9	.3	B98936
Do.	No. 7 (Upper Bench)	M		1	2,910+	-	-	28.1	.3	B98937
LeRoy	No. 3	M		1	2,450	2,510	2,530	10.0	.2	A1963
Do.	No. 4	M		1	2,560	2,580	2,590	15.8	.2	A1964
Do.	No. 5	M		1	2,340	2,510	2,530	20.1	1.1	A1965
Premier	-	M		1	2,800	2,910	2,960	6.7	.3	A1962
Prospect on Moose Creek	-	M		3	2,910+(1) 2,710 (2)	2,910+(1) 2,760 (1)	- 2,880 (1)	13.1	.3	C31928 to C31930
Palmer										
Pioneer	-	T	1-1/2-inch by 0		2,540	2,650	2,750	13.3	.4	E43386
Wasilla										
Houston Coal Company	- (Upper Bench)	M		1	2,210	2,360	2,420	11.5	.5	D51894
Do.	- (Lower Bench)	M		1	2,210	2,520	2,680	16.3	.5	D51895
Southeastern Alaska Region										
Admirality Island										
Harkrader	-	M		2	2,170	2,260	2,450	23.4	1.2	A43506 and A43507
ARIZONA										
Apache County										
Chinle										
Chinle	No. 1	T	Run-of-mine		2,410	2,510	2,710	18.0	2.6	B62406
Salina										
Salina	-	T	2-inch lump		2,780	2,810	2,910+	22.7	1.4	D95572
Do.	-	T	2-inch by 0		2,790	2,840	2,910+	25.2	1.7	D95573
Salina Springs										
Chinle No. 2	"M"	M		2	2,740	2,860	2,910+	15.4	1.1	E8897 and E8898
Steam Boat - Trading Post (Outcrop)	"K"	M		1	2,390	2,570	2,790	22.8	1.0	E8900
Coconino County										
Tuba City										
Tuba City	-	M		2	2,500	2,590	2,660	12.6	2.2	A51522 and A51523
Tuba City No. 1	No. 1	T	Run-of-mine		2,760	2,820	2,910+	18.5	1.8	B61477
Navajo County										
Holbrook										
Prehistoric Indian	-	M		1	2,740	2,800	2,870	28.5	1.0	B32871
Do.	Lower	M		1	2,820	2,860	2,890	22.9	.7	B32872
Do.	Upper	M		1	2,280	2,340	2,730	37.0	1.0	B32873
Kayenta										
Kayenta	-	M		2	2,080	2,150	2,320	4.3	.9	A51525 and A51526
Do.	No. 1	T	Run-of-mine		2,210	2,270	2,480	6.1	.5	B61478

1/ M, mine sample; T, tipple sample 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
ARIZONA (Con.)										
Navajo County (Con.)										
Kayenta										
Kayenta No. 2	No. 1	M		2	1,980	2,050	2,260	4.5	.7	E8891 and E8892
Outcrop	-	M		1	2,260	2,330	2,450	8.9	.7	A47589
Keams Canyon										
Keams Canyon	-	M		2	2,650	2,690	2,770	11.3	1.1	96266 and 96267
Do.	No. 1	T	Run-of-mine		2,840	2,910+	-	17.2	1.0	B61476
Do.	-	T	5-inch lump		2,730	2,810	2,910+	16.6	1.0	D95574
Do.	-	T	5-inch by 0		2,800	2,910+	-	20.5	1.2	D95575
Keams Canyon No. 4	"M"	M		2	2,910+(1) 2,780 (1)	2,900 (1)	2,910 (1)	36.4	.9	E8895 and E8896
Oraibi										
Oraibi	No. 1	T	1-1/2-inch lump		2,400	2,780	2,880	19.7	1.7	B61475
Tonolea										
Tuba City No. 4	No. 1	M		2	2,120	2,240	2,540	8.4	.5	E8893 and E8894
Tuba City										
Tuba City No. 2	No. 1	T	1-1/2-inch lump		2,140	2,260	2,390	7.2	.5	B61479
Do.	do.	T	1-1/2-inch by 0		2,140	2,260	2,390	6.6	.7	B61480
Winslow										
Montezuma	-	M		1	2,910+	-	-	12.0	.8	E8899
Winslow Coal Mining Co.	No. 1	M		2		2,960+	-	13.1	.8	A87497 and A87498
ARKANSAS										
Dallas County										
Manning										
American Dyewood Co.	-	M		1	2,730	2,800	2,910	15.5	.6	C61585
Franklin County										
Alix										
Melton Coal Co. No. 1	Hartshorne	M		3	2,370	2,420	2,760	7.3	1.9	A99378 to A99380
Altus										
Black Diamond	Lower Hartshorne	T	6-inch lump		1,970	2,280	2,540	3.3	1.0	B55827
Do.	do.	T	6- by 2-1/2-inch		2,040	2,160	2,540	3.8	1.1	B55828
Do.	do.	T	2-1/2-inch by 0		2,100	2,160	2,540	6.2	1.2	B55829
Liberty	do.	T	8-inch lump		2,070	2,230	2,500	5.4	1.8	B55789
Do.	do.	T	8- by 3-inch		2,070	2,230	2,500	5.8	1.9	B55790
Do.	do.	T	3- by 1-1/4-inch		2,070	2,230	2,570	6.9	1.9	B55791
Do.	do.	T	1-1/4-inch by 0		2,070	2,450	2,580	11.1	2.1	B55792
Quality No. 1	do.	T	8-inch lump		2,380	2,410	2,470	5.7	.7	B55747
Do.	do.	T	8- by 2-1/2-inch		2,440	2,450	2,470	5.8	.6	B55748
Do.	do.	T	2-1/2- by 1-1/4-inch		2,140	2,180	2,260	7.8	.7	B55749
Do.	do.	T	1-1/4-inch by 0		2,300	2,330	2,360	8.1	.7	B55750
Smith	do.	T	2-1/2-inch lump		2,440	2,500	2,530	5.5	.6	B55751
Do.	do.	T	2-1/2-inch by 0		2,200	2,230	2,280	8.7	.7	B55752
Charleston										
Arnold No. 1	Charleston	T	Run-of-mine		2,280	2,330	2,520	6.9	3.2	B56102

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Abandoned	Paris	M		1	2,090	2,190	2,380	4.7	2.4	E40767
Danning										
Stewart No. 2 1/2	Lower Hartshorne	T	6-inch lump		2,370	2,460	2,810	6.1	1.0	B55786
Do.	do.	T	6- by 2-1/2-inch		2,370	2,410	2,810	5.5	1.0	B55787
Do.	do.	T	3/4-inch by 0		1,980	2,050	2,160	10.1	1.5	B55788
Western Coal & Mining Co. No. 2	Hartshorne	M		2	2,260	2,440	2,630	10.1	3.3	A99375 and A99376
Western Coal & Mining Co. No. 6	do.	M		3	2,300	2,710	2,910+(1) 2,780 (2)	4.2	1.8	A99371 to A99373
Mulberry										
Outcrop	do.	M		1	2,480	2,720	2,910+	16.9	.6	E40766
Ozark										
Hopkins & Laster Coal Co. No. 1	Philpot	T	Run-of-mine		2,160	2,290	2,510	4.4	.7	B57592
Merrill	Hartshorne	M		3	2,060	2,230	2,490	4.0	.9	A99382, A99383 and A99835
Quality Coal Co.	do.	M		3	2,150	2,330	2,590	4.1	.8	A99367 to A99369
Wofford & Son	Philpot	T	Run-of-mine		2,150	2,270	2,560	4.1	.9	B57591
Johnson County										
Clarksville										
Arkansas Coal Co.	do.	T	Run-of-mine		2,200	2,310	2,570	5.3	.6	B84565
Do.	do.	M		4	2,200	2,290	2,580	5.4	.7	B84599 to B84602
Blue Blaze	Lower Hartshorne	T	7-1/2- by 5-1/2-inch		2,310	2,360	2,560	7.4	2.3	B55911
Do.	do.	T	5-1/2- by 2-1/2-inch		2,390	2,410	2,680	7.2	2.0	B55912
Do.	do.	T	2-1/2- by 1-1/2-inch		2,390	2,410	2,610	7.7	2.3	B55913
Do.	do.	T	1-1/2- by 1-1/4-inch		2,340	2,370	2,680	7.5	2.1	B55914
Do.	do.	T	3/4-inch by 0		2,270	2,300	2,390	10.0	1.9	B55915
Bryant Coal Co.	do.	M		2	2,160	2,240	2,500	10.3	2.9	A32532 and A32533
Jack Lee	Philpot	M		1	2,300	2,440	2,520	9.3	5.6	E40762
Rainbow	Spadra	T	7-1/2- by 6-inch		2,360	2,400	2,600	8.4	2.5	B57787
Do.	do.	T	6- by 3-inch		2,310	2,360	2,590	7.9	2.3	B57788
Do.	do.	T	3- by 1-1/2-inch		2,260	2,290	2,450	7.8	1.9	B57789
Do.	do.	T	1-1/2- by 5/8-inch		2,070	2,120	2,330	10.3	1.9	B57790
Do.	do.	T	5/8-inch by 0		2,090	2,190	2,380	13.6	1.7	B57791
Ra-Ja-Da	Lower Hartshorne	T	7-1/2- by 5-3/4-inch		2,310	2,450	2,560	11.3	3.9	B56005
Do.	do.	T	5-3/4- by 2-1/2-inch		2,410	2,450	2,630	11.5	4.1	B56006
Do.	do.	T	2-1/2- by 1-1/2-inch		2,330	2,450	2,630	10.7	3.4	B56007
Do.	do.	T	1-1/2- by 1-inch		2,150	2,290	2,540	12.3	3.6	B56008
Do.	do.	T	1/2-inch by 0		2,110	2,210	2,340	16.2	2.6	B56009
Skidmore	Philpot	M		1	2,020	2,220	2,440	4.4	1.0	E40761
Smith-Warner	Spadra	T	1-1/2-inch by 0		2,200	2,420	2,570	5.8	2.2	D84973
Sterling Coal Co.	Hartshorne	M		3	2,290	2,380	2,500	7.8	1.8	A99386 to A99388
Sunshine	do.	M		3	2,250	2,330	2,480	9.0	2.2	B24137 to B24139
Do.	do.	T	1-1/2- by 7/8-inch		2,230	2,340	2,520	7.8	2.1	B24140
Do.	do.	T	2-1/2- by 1-1/2-inch		2,180	2,320	2,550	7.7	1.8	B24141
Do.	do.	T	7- by 5-inch		-	2,410	2,590	8.0	1.8	B24142
Unnamed Strip	-	M		1	2,070	2,210	2,520	3.5	.7	E40763
Ozark										
Ozark-Philpot	Philpot	T	Run-of-mine		2,100	2,220	2,400	7.6	.8	F3092
Spadra										
Black Bear	Lower Hartshorne	T	10-inch lump		2,260	2,510	2,650	8.9	4.0	B56026
Do.	do.	T	10- by 5-inch		2,320	2,510	2,650	9.3	4.1	B56027
Do.	do.	T	5- by 3-inch		2,190	2,510	2,680	9.2	4.1	B56028
Do.	do.	T	3- by 7/8-inch		2,030	2,230	2,670	12.1	3.3	B56029
Do.	do.	T	7/8-inch by 0		2,090	2,430	2,560	17.0	3.3	B56030
Clark-McWilliams Coal Co.	Hartshorne	M		3	2,320	2,440	2,580	7.6	1.9	A99390 to A99392
Collier Dunlap	Lower Hartshorne	T	7-1/2- by 5-1/2-inch		2,260	2,330	2,740	10.4	3.2	B56000
Do.	do.	T	5-1/2- by 2-1/2-inch		2,340	2,400	2,750	9.7	2.8	B56001

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ARKANSAS (Con.)										
Johnson County (Con.)										
Spadra										
Collier Dunlap	Lower Hartshorne	T	2-1/2- by 1-1/2-inch		2,230	2,260	2,490	10.2	2.5	B56002
Do.	do.	T	1-1/2- by 1-inch		2,170	2,250	2,420	10.2	2.4	B56003
Do.	do.	T	1/2-inch by 0		2,150	2,190	2,310	13.1	2.6	B56004
Fernwood No. 2	Hartshorne	M		3	2,340	2,420	2,510	6.4	1.3	A99394 to A99396
Harding Coal Co.	Spadra	T	7-1/2- by 5-1/4-inch		2,290	2,320	2,550	9.7	2.7	B57783
Do.	do.	T	5-1/4- by 2-1/8-inch		2,320	2,360	2,570	8.8	2.3	B57784
Do.	do.	T	2-1/8- by 1-1/4-inch		2,280	2,330	2,530	8.5	2.2	B57785
Do.	do.	T	1-1/4-inch by 0		2,140	2,210	2,450	15.9	1.9	B57786
Logan County										
Corbin City										
Shockley	Paris	T	8-inch lump		2,160	2,400	2,450	7.5	2.2	B56335
Do.	do.	T	8- by 3-inch		2,110	2,410	2,450	8.1	2.4	B56336
Do.	do.	T	3- by 1-1/4-inch		2,100	2,150	2,180	11.4	2.4	B56337
Do.	do.	T	1-1/4-inch by 0		2,100	2,180	2,430	21.2	2.0	B56338
Paris										
A & M	do.	T	5-inch lump		2,320	2,350	2,400	8.3	2.0	B57792
Do.	do.	T	5- by 2-inch		2,120	2,160	2,210	10.8	2.5	B57793
Do.	do.	T	2-inch by 0		2,060	2,110	2,270	16.1	2.1	B57794
Carbon No. 1	do.	T	8-inch lump		2,160	2,320	2,480	8.1	2.1	B57593
Do.	do.	T	8- by 3-inch		2,160	2,320	2,370	8.3	2.0	B57594
Do.	do.	T	3-inch by 0		2,160	2,210	2,420	22.2	1.8	B57595
Carbon No. 2	do.	T	8-inch lump		2,320	2,370	2,410	8.2	2.3	B56992
Do.	do.	T	8- by 2-1/2-inch		2,320	2,370	2,410	8.0	2.4	B56993
Do.	do.	T	2-1/2- by 1-inch		2,100	2,140	2,360	18.1	2.1	B56994
Do.	do.	T	1- by 3/8-inch		2,080	2,140	2,370	21.6	2.1	B56995
Do.	do.	T	3/8-inch by 0		2,130	2,240	2,410	24.2	1.9	B56996
Crescent	do.	T	8-inch lump		2,420	2,440	2,470	9.3	2.4	B56167
Do.	do.	T	8- by 3-inch		2,420	2,440	2,470	9.5	2.3	B56168
Do.	do.	T	3- by 1-1/4-inch		2,010	2,070	2,150	13.3	2.2	B56169
Do.	do.	T	1-1/4- by 7/8-inch		2,100	2,150	2,400	17.6	2.2	B56170
Do.	do.	T	7/8-inch by 0		2,100	2,190	2,410	23.7	1.9	B56171
Dixie	do.	T	12- by 9-inch		2,160	2,500	2,570	7.1	1.4	B56395
Do.	do.	T	9- by 3-inch		2,160	2,500	2,570	7.4	1.6	B56396
Do.	do.	T	3- by 3/16-inch		2,360	2,380	2,420	10.1	1.7	B56397
Economy	do.	T	Run-of-mine		2,300	2,320	2,430	8.0	1.8	B56989
Do.	do.	T	2-1/2-inch by 0		2,100	2,140	2,250	14.6	2.0	B56990
Eureka	do.	M		3	2,110	2,360	2,450	9.6	2.7	A99406 to A99408
Do.	do.	T	8-inch lump		2,140	2,330	2,410	8.8	2.3	B56125
Do.	do.	T	8- by 3-inch		2,180	2,400	2,490	8.5	2.3	B56126
Do.	do.	T	3- by 1-1/4-inch		2,240	2,320	2,430	10.0	2.2	B56127
Do.	do.	T	1-1/4-inch by 0		2,180	2,240	2,420	24.5	1.8	B56128
Grand No. 3	do.	T	8-inch lump		2,210	2,360	2,510	7.8	1.8	B56455
Do.	do.	T	8- by 4-inch		2,310	2,400	2,520	7.5	1.7	B56456
Do.	do.	T	4- by 2-inch		2,330	2,370	2,420	8.3	1.8	B56457

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Do.	do.	T	2- by 1-inch		2,310	2,330	2,400	9.6	2.0	B56458
Do.	do.	T	1-inch by 0		2,060	2,110	2,210	13.6	1.7	B56459
Horse Shoe	do.	T	8-inch lump		2,220	2,430	2,470	8.2	2.1	B56449
Do.	do.	T	8- by 4-inch		2,130	2,330	2,390	8.5	1.9	B56450
Do.	do.	T	4- by 2-inch		2,270	2,400	2,460	8.1	1.9	B56451
Do.	do.	T	2- by 1-inch		2,120	2,170	2,200	12.1	2.0	B56452
Do.	do.	T	1- by 1/4-inch		2,180	2,230	2,260	11.4	1.9	B56453
Do.	do.	T	1/4-inch by 0		2,050	2,150	2,210	13.1	1.6	B56454
Jewel	do.	M		2	2,190	2,320	2,470	9.2	2.3	A99824 and A99833
Mack	do.	T	12-inch lump		2,200	2,370	2,510	7.7	2.0	B56354
Do.	do.	T	12- by 6-inch		2,390	2,400	2,510	8.9	2.1	B56355
Do.	do.	T	6- by 3-inch		2,200	2,380	2,500	7.9	2.2	B56356
Do.	do.	T	3- by 1-1/4-inch		2,370	2,380	2,500	8.4	2.0	B56357
Do.	do.	T	1-1/4-inch by 0		2,150	2,190	2,370	20.3	1.8	B56358
New Super Fuel	do.	T	9-inch lump		2,340	2,420	2,530	8.7	2.1	B56172
Do.	do.	T	9- by 5-inch		2,190	2,430	2,530	8.5	2.1	B56173
Do.	do.	T	5- by 3-inch		2,370	2,410	2,460	8.4	2.1	B56174
Do.	do.	T	3- by 1-1/4-inch		2,370	2,410	2,460	8.9	2.0	B56175
Do.	do.	T	1-1/4- by 7/8-inch		2,030	2,070	2,230	14.8	2.0	B56176
Do.	do.	T	7/8-inch by 0		2,040	2,130	2,280	17.7	1.8	B56177
New Union	do.	T	8-inch lump		2,390	2,410	2,510	9.0	2.5	B56359
Do.	do.	T	8- by 4-inch		2,330	2,360	2,420	8.7	2.3	B56360
Do.	do.	T	4- by 2-inch		2,300	2,310	2,440	9.9	2.6	B56361
Do.	do.	T	2-inch by 0		2,080	2,130	2,190	13.7	2.4	B56362
Superfuel	do.	M		3	2,170	2,380	2,440	9.0	2.6	A99384, A99829 and A99830
Victor	do.	T	8-inch lump		2,370	2,410	2,440	9.4	2.4	B56398
Do.	do.	T	8- by 3-inch		2,360	2,380	2,410	9.1	2.2	B56399
Do.	do.	T	3-inch by 0		2,240	2,270	2,320	10.4	2.1	B56400
Watson	do.	T	10-inch lump		2,370	2,410	2,530	9.3	2.1	B56105
Do.	do.	T	10- by 8-inch		2,360	2,380	2,520	9.6	2.1	B56106
Do.	do.	T	8- by 4-inch		2,360	2,380	2,460	9.3	2.2	B56107
Do.	do.	T	4- by 2-inch		2,140	2,210	2,260	11.1	2.3	B56108
Do.	do.	T	2- by 1-inch		1,990	2,050	2,170	13.1	2.3	B56109
Do.	do.	T	1- by 3/8-inch		2,050	2,090	2,190	14.4	2.0	B56110
Do.	do.	T	3/8-inch by 0		2,050	2,090	2,190	16.0	1.8	B56111
Prairie View										
Hickory	Lower Hartshorne	M		2	2,010	2,180	2,380	8.3	1.3	B23744 and B23745
Do.	do.	T	8- by 6-inch		2,300	2,600	2,780	5.6	1.0	B55359
Do.	do.	T	6- by 2-1/2-inch		2,290	2,470	2,810	6.3	1.2	B55360
Do.	do.	T	2-1/2- by 1-1/4-inch		2,080	2,160	2,610	7.9	1.3	B55361
Do.	do.	T	1-1/4-inch by 0		2,140	2,200	2,500	9.6	1.1	B55362
New Deal Coal Co.	Hartshorne	M		3	2,280	2,470	2,700	6.2	1.6	A99825, A99831 and A99832
Pope County										
Russellville										
Bernice Anthracite Co. No. 3	do.	M		3	2,280	2,380	2,550	9.1	2.0	A99410 to A99412
Do.	Lower Hartshorne	T	7-1/2- by 5-1/2-inch		2,210	2,320	2,400	9.6	1.5	B57441
Do.	do.	T	5-1/2- by 2-1/4-inch		2,210	2,300	2,430	9.9	1.7	B57442
Do.	do.	T	2-1/4- by 1-1/2-inch		2,110	2,220	2,380	11.2	2.2	B57443
Do.	do.	T	1-1/2- by 7/8-inch		2,100	2,170	2,280	11.4	2.0	B57444
Do.	do.	T	7/8-inch by 0		2,180	2,220	2,370	12.4	1.9	B57445
Ouachita County										
Camden										
Old Big House	-	M		1	2,030	2,050	2,120	11.7	.6	C61584
Lester										
Dunn	-	M		1	2,010	2,050	2,180	13.6	.6	C28938

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ARKANSAS (Con.)										
Scott County										
Bates										
Bates	**Lower Hartshorne**	**T**	**11-inch lump**		**2,400**	**2,450**	**2,610**	**5.5**	**.6**	**B57903**
Do.	**do.**	**T**	**11- by 8-inch**		**2,400**	**2,440**	**2,610**	**5.5**	**.7**	**B57904**
Do.	**do.**	**T**	**8- by 2-1/2-inch**		**2,400**	**2,480**	**2,610**	**5.7**	**.7**	**B57905**
Do.	**do.**	**T**	**2-1/2-inch by 0**		**2,160**	**2,200**	**2,450**	**11.5**	**.8**	**B57906**
Waldron										
Prospect	**Hartshorne**	**M**		**1**	**2,670**	**2,750**	**2,850**	**10.8**	**1.1**	**E40768**
Sebastian County										
Bonanza										
Bonanza	**do.**	**T**	**Run-of-mine**		**2,070**	**2,310**	**2,730**	**10.2**	**1.4**	**B69517**
Bonanza No. 1	**do.**	**T**	**2-1/2-inch lump**		**2,120**	**2,180**	**2,450**	**8.9**	**1.6**	**B54768**
Do.	**do.**	**T**	**2-1/2-inch by 0**		**2,050**	**2,370**	**2,490**	**16.6**	**2.1**	**B54769**
Bonanza No. 135	**do.**	**T**	**8-inch lump**		**2,000**	**2,150**	**2,370**	**8.3**	**1.9**	**B54696**
Do.	**do.**	**T**	**8- by 2-1/2-inch**		**2,050**	**2,150**	**2,360**	**9.7**	**2.4**	**B54697**
Do.	**do.**	**T**	**2-1/2-inch by 0**		**2,200**	**2,360**	**2,560**	**17.3**	**2.0**	**B54698**
Great Western	**Lower Hartshorne**	**M**		**3**	**2,150**	**2,230**	**2,440**	**9.5**	**1.4**	**B60289 to B60291**
Excelsior										
Bianca	**Hartshorne**	**M**		**3**	**2,110**	**2,290**	**2,520**	**5.6**	**1.5**	**A99414 to A99416**
Boyd Excelsior	**Lower Hartshorne**	**T**	**10-inch lump**		**2,310**	**2,360**	**2,400**	**4.4**	**.8**	**B55547**
Do.	**do.**	**T**	**10- by 4-inch**		**2,330**	**2,370**	**2,410**	**4.0**	**.9**	**B55548**
Do.	**do.**	**T**	**4- by 2-inch**		**2,310**	**2,340**	**2,430**	**4.4**	**.8**	**B55549**
Do.	**do.**	**T**	**2-inch by 0**		**2,110**	**2,210**	**2,420**	**8.7**	**.8**	**B55550**
Sun Excelsior	**Upper Hartshorne**	**T**	**10-inch lump**		**2,410**	**2,430**	**2,440**	**4.4**	**.7**	**B56273**
Do.	**do.**	**T**	**10- by 2-1/2-inch**		**2,410**	**2,440**	**2,460**	**4.2**	**.7**	**B56274**
Do.	**do.**	**T**	**2-1/2- by 1-1/4-inch**		**2,210**	**2,280**	**2,330**	**6.0**	**.7**	**B56275**
Do.	**do.**	**T**	**1-1/4-inch by 0**		**2,110**	**2,150**	**2,270**	**8.6**	**.8**	**B56276**
Sun Smokeless Coal Co.	**do.**	**M**		**2**	**2,130**	**2,310**	**2,500**	**4.6**	**.9**	**B23747 and B23748**
Peerless	**do.**	**T**	**10-inch lump**		**1,880**	**2,050**	**2,180**	**2.9**	**.8**	**B54866**
Do.	**do.**	**T**	**10- by 2-1/2-inch**		**1,970**	**2,150**	**2,390**	**4.4**	**.9**	**B54867**
Do.	**do.**	**T**	**2-1/2-inch by 0**		**2,160**	**2,290**	**2,520**	**9.1**	**1.1**	**B54868**
Greenwood										
Boyd	**do.**	**T**	**10-inch lump**		**2,430**	**2,450**	**2,490**	**5.0**	**.8**	**B82719**
Do.	**do.**	**T**	**10- by 4-inch**		**2,430**	**2,450**	**2,490**	**5.2**	**.7**	**B82720**
Do.	**do.**	**T**	**4- by 1-1/4-inch**		**2,170**	**2,210**	**2,380**	**6.2**	**.8**	**B82721**
Do.	**do.**	**T**	**1-1/4-inch by 0**		**2,070**	**2,150**	**2,350**	**9.2**	**.8**	**B82722**
Boyd Excelsior	**do.**	**M**		**4**	**2,270**	**2,310**	**2,430**	**6.1**	**.8**	**B84604 to B84607**
Fawn	**Hartshorne**	**T**	**10-inch lump**		**2,320**	**2,370**	**2,440**	**5.0**	**.9**	**B54764**
Do.	**do.**	**T**	**10- by 4-inch**		**2,320**	**2,350**	**2,420**	**5.2**	**1.0**	**B54765**
Do.	**do.**	**T**	**4- by 2-inch**		**2,320**	**2,400**	**2,440**	**5.0**	**.9**	**B54766**
Do.	**do.**	**T**	**2-inch by 0**		**2,270**	**2,320**	**2,460**	**14.9**	**1.2**	**B54767**
Do.	**Upper Hartshorne**	**T**	**10-inch lump**		**2,360**	**2,390**	**2,510**	**4.3**	**.8**	**B82723**
Do.	**do.**	**T**	**10- by 2-1/2-inch**		**2,320**	**2,370**	**2,490**	**4.2**	**1.0**	**B82724**
Do.	**do.**	**T**	**2-1/2- by 1-1/4-inch**		**2,090**	**2,190**	**2,370**	**8.4**	**.9**	**B82725**
Do.	**do.**	**T**	**1-1/4-inch by 0**		**2,200**	**2,290**	**2,630**	**10.6**	**1.0**	**B82726**
Geary	**Lower Hartshorne**	**T**	**10-inch lump**		**2,300**	**2,330**	**2,730**	**5.5**	**.9**	**B57281**
Do.	**do.**	**T**	**10- by 2-1/2-inch**		**2,240**	**2,300**	**2,730**	**5.7**	**.9**	**B57282**

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Do.	do.	T	2-1/2-inch by 0		2,090	2,200	2,490	12.1	1.4	B57283
Paris Purity No. 6	do.	T	8-inch lump		2,130	2,190	2,450	4.8	1.1	B90520
Do.	do.	T	8- by 2-1/2-inch		2,150	2,220	2,510	7.3	1.0	B90521
Do.	do.	T	2-1/2-inch by 0		2,180	2,310	2,660	10.0	1.1	B90522
Hackett										
Barr	Hartshorne	M		3	2,220	2,360	2,620	5.1	1.1	A99418 to A99420
Excelsior No. 1	Excelsior	T	1-1/2-inch by 0		2,090	2,140	2,230	10.5	.8	B69518
Excelsior Valley Coal Co.	do.	M		1	2,040	2,180	2,340	6.9	1.0	A3302
Hackett	Lower Hartshorne	T	8-inch lump		2,160	2,270	2,470	5.4	1.1	B79724
Do.	do.	T	8- by 4-inch		2,080	2,210	2,430	5.2	1.2	B79725
Do.	do.	T	4-inch by 0		1,990	2,190	2,380	7.8	.9	B79726
Quality	Upper Hartshorne	T	10-inch lump		2,370	2,470	2,520	4.5	.7	B55653
Do.	do.	T	10- by 2-1/2-inch		2,370	2,430	2,470	4.7	.7	B55654
Do.	do.	T	2-1/2- by 1-1/4-inch		2,380	2,420	2,470	5.0	.7	B55655
Do.	do.	T	1-1/4-inch by 0		2,310	2,360	2,420	7.4	.8	B55656
Quality Excelsior	do.	M		3	2,280	2,320	2,500	6.6	.8	B60296 to B60298
Reeves No. 1	do.	T	10-inch lump		2,380	2,400	2,450	4.7	.7	B56719
Do.	do.	T	10- by 4-inch		2,380	2,400	2,450	4.9	.7	B56720
Do.	do.	T	4- by 1-1/4-inch		2,320	2,330	2,370	5.8	.7	B56721
Do.	do.	T	1-1/4- by 3/4-inch		2,240	2,280	2,330	6.1	.7	B56722
Do.	do.	T	3/4-inch by 0		2,380	2,420	2,500	7.0	.7	B56723
Reeves No. 2	Excelsior	T	8-inch lump		2,040	2,120	2,340	5.7	1.1	B55079
Do.	do.	T	8- by 2-1/2-inch		2,020	2,100	2,490	5.7	1.1	B55080
Do.	do.	T	2-1/2-inch by 0		2,210	2,310	2,470	11.2	1.0	B55081
Scott	do.	M		1	2,170	2,280	2,330	4.6	.8	A3304
Skinner	Hartshorne	M		3	2,090	2,200	2,420	3.0	.8	A99827, A99836 and A99837
Sun	Excelsior	M		2	2,040	2,120	2,210	3.4	.9	A3299 and A3300
Hartford										
J. M. Bates Coal Co.	-	T	2-1/2-inch lump		1,990	2,060	2,260	7.7	1.0	B55082
Do.	-	T	2-1/2-inch by 0		2,020	2,180	2,460	13.1	1.1	B55083
Central No. 10	Hartshorne	M		3	1,960	2,070	2,150	8.3	.9	81809 to 81811
Huntington										
Rodgers	Lower Hartshorne	T	2-inch lump		2,050	2,130	2,310	7.3	.7	B58752
Do.	do.	T	2-inch by 0		2,050	2,230	2,580	9.0	.7	B58753
Jenny Lind										
Jenny Lind No. 5	Hartshorne	T	10-inch lump		2,330	2,380	2,680	9.0	2.9	B54869
Do.	do.	T	10- by 3-inch		2,160	2,380	2,680	9.2	2.6	B54870
Do.	do.	T	3- by 1-1/4-inch		2,060	2,100	2,350	11.3	2.8	B54871
Do.	do.	T	1-1/4-inch by 0		2,010	2,060	2,230	12.2	2.4	B54872
Do.	do.	M		3	2,100	2,160	2,370	10.0	2.1	B55051 to B55053
Western Mining Co.	do.	M		3	2,300	2,370	2,490	6.5	1.1	A99398 to A99400
Midland										
Hobbs No. 2	Lower Hartshorne	T	2-1/2-inch lump		2,100	2,220	2,360	8.3	2.3	B57205
Do.	do.	T	2-1/2-inch by 0		2,030	2,250	2,430	16.3	2.4	B57206
Majestic	Hartshorne	M		3	2,060	2,110	2,280	8.9	.9	A99402 to A99404
Robinson	Midland	M		1	1,950	2,010	2,090	9.7	.9	A3303
Smokeless No. 4	Lower Hartshorne	T	8-inch lump		2,120	2,270	2,520	6.6	1.0	B57202
Do.	do.	T	8- by 2-1/2-inch		2,070	2,230	2,480	8.2	1.2	B57203
Do.	do.	T	2-1/2-inch by 0		2,140	2,360	2,590	10.6	1.2	B57204
Smokeless No. 5	do.	T	8-inch lump		2,200	2,270	2,540	7.6	1.2	B83115
Do.	do.	T	8- by 4-inch		2,200	2,270	2,520	7.3	1.2	B83116
Do.	do.	T	4-inch by 0		2,240	2,530	2,780	11.2	1.4	B83117

CALIFORNIA

Amador County										
Ione										
American Lignite Products Co. No. 3	-	M		1	2,910+	-	-	11.8	.9	D11508

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
CALIFORNIA (Con.)										
Amador County (Con.)										
Ione										
American Lignite Products Co. No. 3	-	M		1	2,910+	-	-	18.4	.9	D11509
Contra Costa County										
Pittsburgh										
Black Diamond	Clark	M		1	2,100	2,260	2,310	7.7	5.4	D1011
Mendocino County										
Dos Rios										
Camp Carbon	Mendocino	M		1	2,020	2,090	2,270	13.9	4.1	A305
Do.	do.	M		1	1,790	1,860	1,960	3.7	2.8	A2211
Prospect	-	M		3	2,320	2,410	2,620	13.6	2.7	C3725 to C3727
Monterey County										
San Miguel										
Stone Canyon	Stone Canyon	M		3	1,970	2,060	2,120	17.3	4.7	83996 to 83998
Do.	do.	M		1	2,120	2,250	2,330	16.7	4.8	A67594
San Benito County										
Idria										
Lloyd Jones	-	M		1	2,790	2,850	-	14.4	6.2	96200
Llanada										
San Benito	-	M		1	2,680	2,740	2,800	20.4	2.4	96201
Trinity County										
Big Bar										
Prospect	-	M		1	2,720	2,820	2,930	21.6	.8	A45064
Reilly	-	M		1	2,040	2,500	2,700	7.8	.8	A36514
Weaverville										
Reese	-	M		1	2,090	2,200	2,550	25.8	1.5	A30710
COLORADO										
Archuletta County										
Bayfield (La Plata County)										
Columbine	-	T	1-inch lump		2,390	2,590	2,730	14.0	.4	D95704
Do.	-	T	1- by 3/8-inch		2,460	2,500	2,700	14.8	.5	D95705
Do.	-	T	3/8-inch by 0		2,380	2,440	2,620	13.8	.7	D95706
Do.	-	T	1-inch lump		2,870	2,910+	-	14.0	.6	E61580
Do.	-	T	1- by 1/2-inch		2,710	2,900	2,910+	12.2	.6	E61581
Do.	-	T	1/2-inch by 0		2,700	2,820	2,910+	12.4	.6	E61582
Tripple "S"	Fruita	T	3-inch lump		2,910+	-	-	13.0	.8	C9771
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	11.9	.9	C9772
Do.	do.	T	1-1/4-inch by 0		2,650	2,790	2,910+	10.6	1.1	C9773

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Yellow Jacket	Yellow Jacket	T	4-inch lump		2,880	2,910+	-	15.3	.6	C9802
Do.	do.	T	4- by 2-inch		2,890	2,910+	-	16.3	.6	C9803
Do.	do.	T	2- by 3/4-inch		2,860	2,910+	-	14.9	.6	C9804
Do.	do.	T	3/4-inch by 0		2,570	2,700	2,770	13.4	.7	C9805
Pagosa Springs										
Ballino	-	T	3/4-inch lump		2,760	2,840	2,910+	14.4	.8	C30861
Do.	-	T	3/4-inch by 0		2,580	2,680	2,900	14.0	.9	C30862
Boulder County										
Boulder										
Black Diamond	-	T	6- by 2-1/2-inch		2,070	2,110	2,150	5.6	.5	A96043
Do.	-	M		4	2,020	2,100	2,180	5.8	.5	A96044 to A96047
Do.	-	T	8-inch lump		2,140	2,230	2,270	5.4	.4	B74559
Do.	-	T	8- by 2-1/2-inch		1,980	2,080	2,260	8.1	.7	B74560
Do.	-	T	2-1/2-inch by 0		2,020	2,050	2,140	6.9	.4	B74561
Premier	-	M		1	2,010	2,030	2,090	5.7	.6	B36201
Erie (Weld County)										
Arrow	-	T	2-inch x 0		2,130	2,230	2,570	12.5	1.1	A96314
Do.	-	M		2	2,270	2,310	2,540	6.4	.6	A96315 and A96316
Gorham										
Crown	-	T	2-1/2-inch by 0		2,000	2,060	2,350	6.3	.4	A96278
Do.	-	M		3	2,120	2,170	2,260	5.1	.4	A96279 to A96281
Eldorado	-	T	6-inch lump		1,960	2,020	2,180	6.1	1.7	A95729
Do.	-	M		3	2,020	2,120	2,240	5.5	2.1	A95725 to A95727
Lewis No. 2	-	T	6-inch lump		2,310	2,360	2,440	4.9	1.1	A95916
Do.	-	M		1	2,330	2,360	2,390	5.1	1.6	B52847
Red Ash	-	M		2	2,050	2,090	2,260	6.5	1.2	B96238 and B96239
Ross	Gorham	M		2	2,200	2,260	2,310	5.1	.9	B25043 and B25044
Rosser	-	M		2	2,120	2,230	2,330	5.1	1.1	A95835 and A95836
Do.	-	T	6-inch lump		2,250	2,280	2,380	4.9	1.0	A95838
Lafayette										
Hi-Way	Boulder	M		3	2,000	2,170	2,270	4.9	.4	A66501 to A66503
Do.	Laramie	T	8-inch lump		2,050	2,180	2,210	5.1	.3	D57571
Do.	do.	T	8- by 4-inch		2,050	2,130	2,180	5.1	.3	D57572
Do.	do.	T	4- by 2-1/2-inch		2,050	2,130	2,150	5.4	.2	D57573
Do.	do.	T	2-1/2-inch by 0		2,290	2,360	2,470	8.6	.4	D57574
Liley	Upper Seam	M		3	2,090	2,170	2,400	9.1	.4	B58881 to B58883
Do.	Laramie	T	8-inch lump		2,030	2,140	2,320	7.5	.3	B74562
Do.	do.	T	8- by 2-1/2-inch		2,050	2,150	2,350	7.9	.4	B74563
Do.	do.	T	2-1/2- by 1-1/2-inch		2,020	2,130	2,350	7.7	.3	B74564
Do.	do.	T	1-1/2- by 5/8-inch		2,030	2,130	2,320	7.6	.4	B74565
Do.	do.	T	5/8-inch by 0		2,020	2,130	2,350	7.5	.3	B74566
Paramount	-	M		2	2,080	2,130	2,410	6.9	.8	A95940 and A95941
Vulcan	-	M		2	2,020	2,070	2,180	5.8	.3	B4604 and B4605
Louisville										
Centenial	-	M		5	2,020	2,080	2,260	6.3	.4	B61052 to B61056
Do.	Laramie	T	4-inch lump		1,980	2,080	2,240	7.3	.3	B73802
Do.	do.	T	4- by 2-1/2-inch		1,980	2,080	2,230	6.6	.3	B73803
Do.	do.	T	2-1/2-inch by 0		1,950	2,050	2,210	6.3	.3	B73804
Champion	-	M		2	2,090	2,230	2,280	8.3	.7	82613 and 82614
Fireside	-	M		3	2,050	2,100	2,240	7.0	.6	A95943 to A95945
Monarch	Monarch	M		1	2,150	2,210	2,290	5.3	.7	B36023
Monarch No. 2	-	M		4	2,130	2,210	2,300	4.9	.4	A97957 to A97960
Do.	-	T	8-inch lump		2,140	2,270	2,360	4.7	.5	B73805
Do.	-	T	8- by 2-1/2-inch		2,130	2,230	2,310	5.1	.4	B73806
Do.	-	T	2-1/2-inch by 0		1,970	2,120	2,230	5.9	.5	B73807
New Centenial	-	M		3	2,060	2,220	2,260	4.5	.3	B22553 to B22555
Do.	-	T	2-1/2-inch by 0		1,920	2,030	2,200	6.2	.4	B22557
Regal	Laramie	T	8-inch lump		2,130	2,170	2,250	5.2	.3	B73904
Do.	do.	T	8- by 2-1/2-inch		2,080	2,150	2,230	5.3	.4	B73905
Do.	do.	T	2-1/2- by 1-1/2-inch		1,920	2,020	2,270	6.9	.5	B73906

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Boulder County (Con.)										
Louisville										
Regal	Laramie	T	1-1/2- by 3/4-inch		1,920	2,020	2,270	6.8	.4	B73907
Do.	do.	T	3/4-inch by 0		2,010	2,090	2,300	8.7	.5	B73908
York	-	M		4	2,450	2,500	2,550	9.3	.2	B53286 to B53289
Do.	-	M		2	2,220	2,280	2,600	12.5	.6	B60026 and B60027
Superior										
Crown	-	T	10-inch lump		2,060	2,130	2,270	5.5	.2	E9606
Do.	-	T	10- by 4-inch		2,050	2,100	2,140	5.8	.2	E9607
Do.	-	T	4- by 2-1/2-inch		2,040	2,080	2,130	5.7	.2	E9608
Do.	-	T	2-1/2-inch by 0		1,930	2,000	2,110	6.7	.2	E9609
Gorham	Gorham	T	6-inch lump		2,070	2,130	2,180	5.5	.4	A95660
Do.	do.	M		1	2,000	2,100	2,180	5.0	.3	B33028
Industrial	do.	M		4	2,120	2,160	2,300	5.5	.3	A85012 to A85015
Do.	do.	T	6-inch lump		2,050	2,100	2,180	5.5	.3	A85434
Do.	do.	T	6- by 2-1/2-inch		2,040	2,090	2,260	5.8	.2	A85435
Do.	do.	T	2-1/2-inch by 0		2,120	2,190	2,450	9.2	.4	A85436
Do.	do.	T	8-inch lump		2,130	2,270	2,360	5.0	.3	B73808
Do.	do.	T	8- by 2-1/2-inch		2,020	2,100	2,230	6.3	.2	B73809
Do.	do.	T	2-1/2-inch by 0		2,190	2,300	2,500	14.6	.3	B73810
New Crown	Monarch	M		4	2,050	2,130	2,310	6.9	.6	B43726 to B43729
Pluto	Pluto	T	2-1/2-inch lump		2,080	2,130	2,200	5.2	.3	B74131
Do.	do.	T	2-1/2- by 3/4-inch		1,920	2,050	2,200	7.6	.4	B74132
Do.	do.	T	3/4-inch by 0		1,970	2,080	2,270	8.6	.4	B74133
Delta County										
Bowie										
Blue Ribbon	-	T	6-inch lump		2,160	2,440	2,550	3.5	.4	E40592
Do.	-	T	6- by 1-1/2-inch		2,370	2,460	2,570	3.7	.4	E40593
Do.	-	T	1-1/2-inch by 0		2,320	2,510	2,570	5.0	.5	E40594
King	King	T	Run-of-mine		2,730	2,860	2,910+	8.1	.5	B75488
Do.	do.	T	8-inch lump		2,680	2,750	2,840	4.3	.5	E41076
Do.	do.	T	8- by 3-inch		2,710	2,770	2,870	4.9	.5	E41077
Do.	do.	T	3-inch by 0		2,740	2,810	2,900	7.1	.6	E41078
Cedaredge										
Black Diamond	-	T	5-inch lump		2,910+	-	-	8.7	.6	C82368
Do.	-	T	5- by 3-inch		2,910+	-	-	9.5	.6	C82369
Do.	-	T	3-inch by 0		2,910+	-	-	10.0	.7	C82370
Coalby Red Canon No. 2	No. 5	M		1	2,480	2,610	2,830	5.3	.7	B34033
Green Valley	Green Valley	M		1	2,030	2,060	2,110	2.4	.6	A6393
Do.	do.	M		1	2,520	2,570	2,850	7.7	.6	A73706
Do.	No. 5	M		1	2,280	2,370	2,780	5.4	.5	B34035
Green Valley No. 2	-	T	3-inch lump		2,470	2,520	2,700	6.8	.5	E51865
Do.	-	T	3- by 1-1/2-inch		2,350	2,420	2,620	6.9	.7	E51866
Do.	-	T	1-1/2- by 1-inch		2,320	2,420	2,620	7.5	.7	E51867
Do.	-	T	1- by 1/4-inch		2,270	2,400	2,620	8.4	.8	E51868
Do.	-	T	1/4-inch by 0		2,240	2,380	2,660	8.3	.8	E51869

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Independent	No. 2	M		1	2,460	2,620	2,680	10.1	2.0	99349
Do.	No. 5	M		1	-	2,900+	-	9.3	.7	B34034
Do.	No. 6	T	6-inch lump		2,910+	-	-	10.6	.6	C32698
Do.	do.	T	Run-of-mine		2,910+	-	-	11.5	.6	C32699
Independent No. 2	-	M		1	-	2,970+	-	7.6	.6	A73707
Raven	No. 2	T	4-inch lump		2,910+	-	-	11.3	.6	C84602
Do.	do.	T	4- by 1-1/4-inch		2,910+	-	-	12.1	.6	C84603
Do.	do.	T	1-1/4-inch by 0		2,620	2,680	2,720	12.0	.8	C84604
Red Canon	-	M		1	2,330	2,470	2,630	4.2	.7	A36023
Do.	-	T	3-inch lump		2,420	2,460	2,710	4.8	.6	E51870
Do.	-	T	3- by 1-1/2-inch		2,330	2,390	2,570	5.4	.7	E51871
Do.	-	T	1-1/2- by 3/8-inch		2,260	2,380	2,690	6.9	.7	E51872
Do.	-	T	3/8-inch by 0		2,390	2,540	2,730	11.0	.8	E51873
Red Mountain	No. 1	T	4-inch lump		2,910	2,910+	-	9.1	.9	C35439
Do.	do.	T	4-inch by 0		2,750	2,850	2,910+	11.5	1.4	C35440
States	do.	T	Run-of-mine		2,750	2,840	2,910+	11.5	1.7	C32829
Do.	"A"	T	1-1/2-inch lump		2,910+	-	-	12.3	1.0	D76870
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	12.3	1.6	D76871
Tomahawk	-	T	4-inch lump		2,910+	-	-	12.0	1.0	E52523
Do.	-	T	4- by 1-1/4-inch		2,860	2,910+	-	9.4	.8	E52524
Do.	-	T	1-1/4- by 1/4-inch		2,830	2,910+	-	8.6	.8	E52525
Do.	-	T	1/4-inch by 0		2,600	2,760	2,880	8.2	1.1	E52526
Top	-	T	Run-of-mine		2,390	2,440	2,490	4.3	.5	E13123
Do.	-	T	5-inch lump		2,340	2,380	2,420	3.4	.8	E51860
Do.	-	T	5- by 1-1/2-inch		2,380	2,440	2,570	4.4	.7	E51861
Do.	-	T	1-1/2- by 5/8-inch		2,260	2,450	2,600	5.8	.7	E51862
Do.	-	T	5/8- by 1/4-inch		2,350	2,460	2,620	7.0	.7	E51863
Do.	-	T	1/4-inch by 0		2,320	2,450	2,620	6.6	.8	E51864
Delta										
Winton	No. 1	T	6-inch lump		2,910	2,910+	-	8.7	.7	C35539
Do.	do.	T	6- by 1-1/2-inch		2,820	2,910	2,910+	9.0	.8	C35540
Do.	do.	T	1-1/2-inch by 0		2,570	2,680	2,820	10.0	1.1	C35541
Hotchkiss										
Owens	-	M		1	2,130	2,260	2,440	4.7	.4	A23309
Paonia										
Delta "W"	-	T	3-inch lump		2,910+	-	-	12.9	.7	C84217
Do.	-	T	3- by 1-1/2-inch		2,910+	-	-	13.9	.7	C84218
Do.	-	T	1-1/2-inch by 0		2,910+	-	-	13.7	.8	C84219
Paonia Farmers	-	M		2	2,290	2,530	2,640	4.4	.7	99394 and 99395
Do.	-	M		1	2,540	2,690	2,760	2.6	.6	A44877
Do.	-	T	1-1/2-inch lump		2,590	2,690	2,800	4.0	.5	D87981
Do.	-	T	1-1/2-inch by 0		2,570	2,670	2,810	3.5	.6	D87982
Do.	-	T	Run-of-mine		2,520	2,620	2,790	4.6	.6	E42278
Elbert County										
Buick										
Stimson	-	M		1	2,130	2,180	2,290	16.1	.6	94619
Fondis										
Janner	-	M		1	2,490	2,530	2,620	21.3	.7	A47114
Matheson										
White Ash	-	M		2	2,160	2,270	2,340	13.3	1.3	A98253 and A98254
Do.	-	T	Run-of-mine		2,180	2,280	2,380	12.0	.7	C91683
Wright	-	M		1	2,240	2,290	2,360	18.0	.8	A2438
El Paso County										
Colorado Springs										
Altitude	"A"	M		2	2,310	2,400	2,450	7.0	.5	A98250 and A98251
City	Fox Hill	T	1-inch by 0		2,100	2,180	2,450	13.9	.4	A98108
Do.	do.	M		2	2,170	2,330	2,420	7.4	.5	A98109 and A98110

1/ M, mine sample; T, tipple sample 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
El Paso County (Con.)										
Colorado Springs										
City No. 3	Fox Hill	T	6-inch lump		2,130	2,220	2,410	10.4	.4	B65767
Do.	do.	T	6- by 3-inch		2,070	2,150	2,260	9.7	.4	B65768
Do.	do.	T	3- by 1-1/2-inch		2,080	2,170	2,350	11.0	.4	B65769
Do.	do.	T	1-1/2- by 1-inch		2,050	2,100	2,350	10.2	.4	B65770
Do.	do.	T	1-inch by 0		2,070	2,150	2,420	11.6	.3	B65771
City No. 4	do.	T	3-inch lump		2,130	2,170	2,280	8.4	.5	C80666
Do.	do.	T	3- by 1-3/4-inch		2,150	2,210	2,310	8.3	.4	C80667
Do.	do.	T	1-3/4- by 1-1/2-inch		2,140	2,200	2,310	11.7	.4	C80668
Do.	do.	T	1-1/2- by 1/2-inch		2,090	2,180	2,290	10.4	.5	C80669
Do.	do.	T	1/2-inch by 0		2,110	2,160	2,420	12.4	.4	C80670
Dixie	"A"	M		2	2,390	2,450	2,550	6.6	.4	A98214 and A98215
Franceville	Fox Hill	T	Run-of-mine		2,080	2,190	2,230	8.2	.4	E33375
Do.	do.	T	2-1/2-inch lump		2,220	2,350	2,460	7.5	.5	E72680
Do.	do.	T	2-1/2-inch by 0		2,470	2,560	2,620	6.4	.5	E72681
Jimmy Camp	"A"	M		2	2,120	2,220	2,400	8.8	.6	A98247 and A98248
New Keystone	do.	M		2	2,280	2,340	2,410	7.5	.5	A98244 and A98245
Pikeview	Fox Hill	M		7	2,280	2,380	2,430	6.3	.7	A98035 to A98041
Do.	do.	T	Run-of-mine		2,340	2,380	2,420	6.6	.5	A53638
Do.	Rose Hills	M		1	2,330	2,360	2,440	5.5	.3	B35008
Do.	Fox Hill	T	6- by 3-inch		2,420	2,470	2,570	6.8	.3	D60928
Do.	do.	T	3- by 2-inch		2,420	2,470	2,570	6.8	.3	D60929
Do.	do.	T	2- by 6-mesh		2,310	2,420	2,470	7.5	.3	D60930
Fremont County										
Canon City										
Brookside	Brookside	T	3-inch lump		2,230	2,310	2,590	7.8	.7	B65499
Do.	do.	T	3- by 1-1/2-inch		2,260	2,310	2,590	8.9	.6	B65500
Do.	do.	T	1-1/2-inch by 0		2,350	2,470	2,590	13.1	.6	B65501
Cannon Red Star	Spring Canon	T	3-1/2-inch lump		2,520	2,580	2,610	11.3	.6	B65444
Do.	do.	T	3-1/2- by 1-inch		2,500	2,540	2,640	14.8	.6	B65445
Do.	do.	T	1-inch by 0		2,440	2,490	2,580	17.1	.7	B65446
Chandler	Chandler	T	5-inch lump		1,980	2,070	2,210	6.1	.5	E68794
Do.	do.	T	5- by 1-1/4-inch		2,000	2,110	2,220	8.1	.5	E68795
Do.	do.	T	1-1/4- by 3/8-inch		2,050	2,100	2,420	8.9	.7	E68796
Do.	do.	T	3/8-inch by 0		2,100	2,130	2,330	10.7	.6	E68797
Cowan Prospect	-	M		1	2,250	2,360	2,520	6.0	.5	C81056
L & C No. 2	Brookside	T	4-inch lump		2,110	2,200	2,550	6.4	.5	E69474
Do.	do.	T	4- by 1-1/4-inch		2,160	2,320	2,590	6.7	.4	E69475
Do.	do.	T	1-1/4- by 3/8-inch		2,330	2,420	2,650	8.5	.5	E69476
Do.	do.	T	3/8-inch by 0		2,160	2,310	2,630	7.8	.6	E69477
Monac No. 5	Canon City	T	3-inch lump		1,950	2,030	2,150	6.5	.9	A60110
Do.	do.	M		3	2,000	2,070	2,210	5.6	.9	A60111 to A60113
Rockvale No. 3	-	T	3-inch lump		2,190	2,300	2,580	7.7	1.1	C37676
Do.	-	T	3- by 1-1/4-inch		2,170	2,270	2,460	7.9	.8	C37677
Do.	-	T	1-1/4-inch by 0		2,160	2,270	2,480	10.5	1.1	C37678
Royal George	Rockvale No. 4	T	5-inch lump		2,140	2,240	2,420	4.3	1.1	B65081

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Do	do.	T	5- by 1-1/4-inch	2,090	2,180	2,410	5.0	1.1	B65082
Do.	do.	T	1-1/4- by 1-inch	2,000	2,090	2,310	6.7	1.4	B65083
Do.	do.	T	1-1/4-inch by 0	2,000	2,090	2,350	6.1	1.3	B65084
Florence									
American Independent	Rockvale	T	3-inch lump	2,130	2,210	2,470	6.0	.6	B65502
Do.	do.	T	3- by 1-1/2-inch	2,110	2,180	2,380	7.2	.5	B65503
Do.	do.	T	1-1/2-inch by 0	2,150	2,310	2,440	17.7	.7	B65504
Annex	Brookside	T	5-inch lump	2,400	2,470	2,620	11.2	.6	E30619
Do.	do.	T	5- by 2-1/2-inch	2,380	2,450	2,570	12.6	.4	E30620
Do.	do.	T	2-1/2-inch by 0	2,380	2,460	2,690	14.8	.5	E30621
Do.	do.	T	Run-of-mine	2,520	2,670	2,890	15.6	.5	E73038
B & B	Lower Jack O'Lantern	T	do.	2,580	2,720	2,750	14.4	1.4	C81121
Beer	do.	T	1-1/2-inch lump	2,210	2,360	2,520	10.4	1.1	D60631
Do.	do.	T	1-1/2-inch by 0	2,310	2,420	2,620	16.2	1.1	D60632
Do.	do.	T	Run-of-mine	2,240	2,470	2,700	15.0	1.5	E71999
Blue Ribbon	Chandler	T	3-inch lump	2,440	2,490	2,580	10.6	1.3	B65447
Do.	do.	T	3- by 1-1/4-inch	2,370	2,440	2,620	12.6	1.7	B65448
Do.	do.	T	1-1/4- by 3/4-inch	2,370	2,440	2,620	14.2	1.6	B65449
Do.	do.	T	3/4-inch by 0	2,370	2,440	2,590	21.9	1.6	B65450
Caldirola No. 2	Brookside	T	5-inch lump	2,360	2,420	2,570	7.1	.5	D61433
Do.	do.	T	5- by 1-1/4-inch	2,420	2,470	2,570	9.4	.5	D61434
Do.	do.	T	1-1/4- by 3/4-inch	2,520	2,640	2,780	14.3	.5	D61435
Do.	do.	T	3/4-inch by 0	2,420	2,620	2,730	15.9	.6	D61436
Do.	do.	T	3-inch lump	2,590	2,720	2,890	21.1	.4	E72682
Do.	do.	T	3- by 1-1/2-inch	2,390	2,550	2,850	15.3	.4	E72683
Do.	do.	T	1-1/2- by 1-1/4-inch	2,420	2,620	2,850	15.9	.4	E72684
Do.	do.	T	1-1/4-inch by 0	2,330	2,450	2,690	14.5	.5	E72685
Canon Black Diamond	do.	T	4-1/2-inch lump	2,140	2,230	2,480	11.4	.5	E32959
Do.	do.	T	4-1/2- by 1-1/4-inch	2,210	2,310	2,470	11.6	.3	E32960
Do.	do.	T	1-1/4- by 3/4-inch	2,220	2,340	2,490	13.0	.4	E32961
Do.	do.	T	3/4-inch by 0	2,220	2,310	2,470	14.6	.3	E32962
Do.	do.	T	4-1/2-inch lump	2,180	2,300	2,660	7.9	.5	E72000
Do.	do.	T	Run-of-mine	2,250	2,360	2,620	9.2	.6	E72001
Canon Chief	do.	T	3-inch lump	2,280	2,430	2,560	9.0	.5	E71535
Do.	do.	T	3- by 1-1/4-inch	2,300	2,420	2,520	9.8	.5	E71536
Do.	do.	T	1-1/4- by 3/4-inch	2,420	2,480	2,730	13.5	.5	E71537
Do.	do.	T	3/4-inch by 0	2,370	2,460	2,640	14.7	.5	E71538
Canon Imperial	Ocean Wave	T	3-inch lump	2,070	2,100	2,170	6.4	1.2	B65598
Do.	do.	T	3- by 1-1/4-inch	2,090	2,160	2,440	7.7	1.3	B65599
Do.	do.	T	1-1/4- by 3/4-inch	2,090	2,160	2,440	7.5	.9	B65600
Do.	do.	T	3/4-inch by 0	2,080	2,150	2,410	12.1	1.0	B65601
Canon Liberty	Zenith	T	6-inch lump	2,100	2,180	2,210	6.4	1.3	D59395
Do.	do.	T	6- by 1-1/2-inch	2,050	2,100	2,180	6.4	.8	D59396
Do.	do.	T	1-1/2- by 3/4-inch	2,080	2,230	2,440	11.7	.9	D59397
Do.	do.	T	3/4-inch by 0	2,100	2,360	2,590	23.4	.9	D59398
Do.	do.	T	3-inch lump	1,970	2,020	2,110	6.2	1.0	E31977
Do.	do.	T	3- by 1-1/2-inch	1,910	1,990	2,140	6.2	.9	E31978
Do.	do.	T	1-1/2- by 3/4-inch	1,960	2,030	2,230	7.2	1.0	E31979
Do.	do.	T	3/4-inch by 0	1,990	2,070	2,270	8.6	.9	E31980
Canon Monarch	Monarch	T	4-inch lump	2,310	2,400	2,640	8.4	.5	B65345
Do.	do.	T	4- by 2-inch	2,160	2,260	2,550	6.3	.7	B65346
Do.	do.	T	2- by 1-1/4-inch	2,150	2,320	2,540	7.3	.7	B65347
Do.	do.	T	1-1/4- by 3/4-inch	2,150	2,320	2,540	8.2	.7	B65348
Do.	do.	T	3/4-inch by 0	2,180	2,280	2,470	10.5	.8	B65349
Canon National	Brookside	T	6-inch lump	2,190	2,300	2,490	10.8	.6	E71844
Do.	do.	T	6- by 3-inch	2,200	2,320	2,540	9.5	.5	E71845
Do.	do.	T	3- by 1-1/4-inch	2,210	2,310	2,540	10.0	.4	E71846
Do.	do.	T	1-1/4-inch by 0	2,430	2,480	2,750	13.5	.6	E71847
Canon Quality	Jack O'Lantern	T	3-inch lump	1,990	2,050	2,130	6.1	1.3	B65745
Do.	do.	T	3- by 2-inch	2,050	2,150	2,470	9.2	1.4	B65746
Do.	do.	T	2- by 3/4-inch	2,050	2,140	2,320	10.1	1.3	B65747

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Fremont County (Con.)										
Florence										
Canon Quality	Jack O'Lantern	T	3/4-inch by 0		2,050	2,140	2,320	9.8	1.2	B65748
Canon Shamrock	Shamrock	T	3-inch lump		2,180	2,280	2,540	7.3	.5	B65741
Do.	do.	T	3- by 2-inch		2,170	2,280	2,430	8.1	.4	B65742
Do.	do.	T	2- by 1-1/4-inch		2,180	2,290	2,470	8.1	.4	B65743
Do.	do.	T	1-1/4-inch by 0		2,060	2,170	2,350	9.4	.5	B65744
Canon Wolf Creek	Brookside	T	2-inch lump		2,210	2,390	2,570	7.8	.5	D61239
Do.	do.	T	2-inch by 0		2,680	2,780	2,870	11.6	.6	D61240
Canon Wolf Creek No. 2	do.	T	2-inch lump		2,220	2,370	2,620	5.9	.5	E68790
Do.	do.	T	2-inch by 0		2,250	2,420	2,720	11.7	.7	E68791
Canon Zenith	-	T	6-inch lump		2,000	2,130	2,350	5.3	1.6	E71656
Do.	-	T	6- by 3-inch		1,900	2,070	2,190	4.9	1.5	E71657
Do.	-	T	3- by 1-1/4-inch		1,880	1,990	2,180	5.9	1.6	E71658
Do.	-	T	1-1/4- by 3/4-inch		1,960	2,030	2,260	8.2	1.9	E71659
Do.	-	T	3/4-inch by 0		1,970	2,060	2,360	11.5	2.0	E71660
Canon Zenith No. 2	Jack O'Lantern	T	5-inch lump		2,000	2,080	2,210	5.9	2.4	D61241
Do.	do.	T	5- by 1-1/4-inch		1,940	2,030	2,210	6.2	2.0	D61242
Do.	do.	T	1-1/4-inch by 0		1,900	2,210	2,470	16.4	2.0	D61243
Chandler Creek	Ocean Wave	T	3-inch lump		2,140	2,190	2,310	6.7	.4	B65602
Do.	do.	T	3- by 1-1/4-inch		2,110	2,150	2,280	6.3	.4	B65603
Do.	do.	T	1-1/4-inch by 0		2,140	2,190	2,420	8.4	.4	B65604
Do.	Magnet	T	5-inch lump		2,060	2,110	2,220	7.7	.6	E33376
Do.	do.	T	5- by 1-1/4-inch		2,150	2,200	2,250	7.5	.6	E33377
Do.	do.	T	1-1/4- by 3/8-inch		2,150	2,210	2,390	8.0	.5	E33378
Do.	do.	T	3/8-inch by 0		2,170	2,240	2,410	8.1	.5	E33379
Coal Creek Canon	Brookside	T	4-inch lump		2,360	2,470	2,680	8.0	.5	D59399
Do.	do.	T	4- by 1-1/2-inch		2,520	2,620	2,730	8.4	.4	D59400
Do.	do.	T	1-1/2-inch by 0		2,840	2,910+	-	16.7	.5	D59401
Do.	do.	T	5-inch lump		2,200	2,310	2,580	6.9	.5	E69320
Do.	do.	T	5- by 1-3/4-inch		2,530	2,650	2,870	9.3	.6	E69321
Do.	do.	T	1-3/4- by 3/4-inch		2,610	2,740	2,910+	12.1	.5	E69322
Do.	do.	T	3/4-inch by 0		2,650	2,760	2,900	11.1	.5	E69323
Corley No. 6	do.	T	4-inch lump		2,380	2,460	2,720	10.7	.3	D83469
Do.	do.	T	4- by 1-1/2-inch (W)		2,370	2,430	2,720	11.5	.3	D83470
Do.	do.	T	1-1/2- by 1-1/4-inch		2,360	2,440	2,730	12.8	.4	D83471
Do.	do.	T	1-1/4-inch by 0		2,380	2,480	2,600	17.7	.4	D83472
Double Dick	do.	T	5-inch lump		2,080	2,200	2,400	8.7	.3	E33047
Do.	do.	T	5- by 1-1/2-inch		2,120	2,220	2,420	10.9	.4	E33048
Do.	do.	T	1-1/2- by 1-1/4-inch		2,210	2,320	2,470	12.3	.4	E33049
Do.	do.	T	1-1/4- by 3/4-inch		2,200	2,320	2,480	11.1	.4	E33050
Do.	do.	T	3/4-inch by 0		2,210	2,350	2,490	13.0	.4	E33051
Golden Quality No. 3	Magnet	T	4-inch lump		2,090	2,210	2,380	7.8	1.0	E69324
Do.	do.	T	4- by 1-1/4-inch		2,120	2,260	2,460	9.9	1.6	E69325
Do.	do.	T	1-1/4-inch by 0		2,060	2,100	2,150	10.6	1.8	E69326
Mountain View	Manley	T	3-inch lump		2,310	2,370	2,620	11.1	.7	B65068
Do.	do.	T	3- by 1-1/2-inch		2,310	2,370	2,570	10.9	.7	B65069
Do.	do.	T	1-1/2- by 3/4-inch		2,310	2,370	2,620	10.9	.7	B65070

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Do.	do.	T	3/4-inch by 0		2,310	2,370	2,700	11.4	.7	B65071
Newlin Creek	Radiant	T	3-inch lump		1,950	2,010	2,110	6.8	1.4	B65127
Do.	do.	T	3- by 1-1/2-inch		1,940	2,000	2,130	7.4	1.6	B65128
Do.	do.	T	1-1/4- by 3/4-inch		1,940	1,990	2,110	8.0	1.6	B65129
Do.	do.	T	3/4-inch by 0		2,060	2,120	2,230	14.3	1.8	B65130
Pine Gulch No. 2	Jack O'Lantern	T	3-inch lump		2,080	2,290	2,470	6.8	1.1	D61023
Do.	do.	T	3- by 1-1/4-inch		2,230	2,310	2,520	7.6	.8	D61024
Do.	do.	T	1-1/4- by 3/4-inch		2,180	2,420	2,590	8.0	.8	D61025
Do.	do.	T	3/4-inch by 0		2,150	2,290	2,570	10.2	1.0	D61026
Pioneer Strip	Brookside	T	8- by 4-inch		2,230	2,450	2,590	7.0	.3	E38559
Do.	do.	T	4- by 1-1/4-inch (W)		2,340	2,420	2,560	8.4	.3	E38560
Do.	do.	T	1-1/4- by 3/4-inch		2,350	2,460	2,630	8.6	.4	E38561
Do.	do.	T	3/4-inch by 0		2,330	2,440	2,620	8.1	.4	E38562
Rex Carbon	do.	T	3-1/2-inch lump		2,030	2,190	2,280	7.2	.4	E32744
Do.	do.	T	3-1/2- by 1-1/4-inch		2,330	2,430	2,600	9.6	.4	E32745
Do.	do.	T	1-1/4-inch by 0		2,340	2,440	2,560	12.5	.4	E32746
Tiger	Pine Gulch	T	3-inch lump		2,200	2,350	2,560	5.8	1.0	B65131
Do.	do.	T	3- by 1-1/2-inch		2,200	2,350	2,550	5.8	1.1	B65132
Do.	do.	T	1-1/2-inch by 0		2,210	2,330	2,560	8.6	1.2	B65133
Vento	Shamrock	T	3-inch lump		2,100	2,210	2,650	7.6	.5	E68210
Do.	do.	T	3- by 1-1/4-inch		2,090	2,130	2,390	9.3	.5	E68211
Do.	do.	T	1-1/4-inch by 0		2,150	2,320	2,560	10.9	.6	E68212
Rockvale										
Black Knight	-	T	4-inch lump		2,360	2,450	2,680	9.2	.5	E31599
Do.	-	T	4- by 2-inch		2,400	2,590	2,760	12.4	.5	E31600
Do.	-	T	2-inch by 0		2,490	2,620	2,800	15.5	.4	E31601
Cedar Canon	Brookside	T	5-inch lump		2,260	2,370	2,560	7.7	.5	E31593
Do.	do.	T	5- by 1-1/2-inch		2,380	2,460	2,580	8.9	.4	E31594
Do.	do.	T	1-1/4- by 1/2-inch		2,390	2,460	2,660	11.8	.4	E31595
Do.	do.	T	1-1/2-inch by 0		2,380	2,440	2,550	10.5	.4	E31596
Rockvale No. 2	Canon City	T	3-inch lump		2,170	2,290	2,420	7.9	.6	A60115
Do.	do.	M		4	2,160	2,310	2,450	8.3	.7	A60116 to A60119
Garfield County										
Carbondale										
Marion-Kilroy	Anderson	T	1-1/2-inch lump		2,080	2,160	2,470	3.7	.5	E76231
Do.	do.	T	1-1/2- by 1/2-inch		2,070	2,230	2,570	5.1	.5	E76232
Do.	do.	T	1/2-inch by 0		2,100	2,420	2,600	6.5	.6	E76233
Fruita (Mesa County)										
Stove Canon	-	M		1	2,460	2,560	2,740	5.1	.7	A40969
Do.	-	M		1	2,250	2,340	2,640	6.7	.9	A96815
Do.	Stove Canon	T	1-1/2-inch lump		2,320	2,480	2,910	6.8	.8	B75004
Do.	do.	T	1-1/2- by 1-inch		2,440	2,600	2,910+	9.6	.7	B75005
Do.	do.	T	1- by 5/16-inch		2,520	2,670	2,910+	13.6	.6	B75006
Do.	do.	T	5/16-inch by 0		2,520	2,670	2,910+	21.5	.7	B75007
Do.	do.	T	6-inch lump		2,480	2,560	2,790	5.5	.9	D89396
Do.	do.	T	6-inch by 0		2,190	2,340	2,680	8.0	.9	D89397
Glenwood Springs										
Delsas	-	T	1-1/4-inch lump		2,080	2,180	2,330	8.4	.5	C40703
Diamond	"D"	T	6-inch lump		2,410	2,460	2,810	5.8	1.0	C42983
Do.	do.	T	6- by 1-3/4-inch		2,400	2,460	2,680	6.5	1.2	C42984
Do.	do.	T	1-3/4-inch by 0		2,340	2,470	2,620	7.7	1.4	C42985
South Canon No. 1	Wheeler	T	3-inch lump		2,640	2,740	2,890	7.0	.4	C35823
Do.	do.	T	3- by 1-1/2-inch		2,840	2,890	2,910+	10.1	.5	C35824
Do.	do.	T	1-1/2-inch by 0		2,740	2,840	2,910	13.9	.5	C35825
Do.	"D"	T	3-inch lump		2,280	2,320	2,640	2.3	.5	C78684
Do.	do.	T	3- by 1-1/2-inch		2,300	2,420	2,620	3.5	.6	C78685
Do.	do.	T	1-1/2-inch by 0		2,410	2,470	2,660	3.6	.6	C78686
South Canon No. 2	"U"	T	Run-of-mine		2,420	2,470	2,790	6.5	.8	C42982
Sunlight	"D"	T	1-1/2-inch lump		2,290	2,380	2,770	3.5	.7	C78388

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Garfield County (Con.)										
Glenwood Springs										
Sunlight	"D"	T	1-1/2-inch by 0		2,570	2,710	2,820	4.1	.8	C78389
Do.	do.	M		1	2,230	2,260	2,500	3.1	1.0	C78392
Do.	do.	T	1-1/2-inch lump		2,580	2,840	2,900	4.2	.6	E41877
Do.	do.	T	1-1/2- by 1/4-inch		2,550	2,670	2,880	3.4	.6	E41878
Do.	do.	T	1/4-inch by 0		2,440	2,510	2,650	5.1	.8	E41879
Zemlock	-	T	1-1/2-inch lump		1,970	2,010	2,330	4.5	1.0	D96751
Do.	-	T	1-1/2- by 1/4-inch		2,070	2,130	2,380	10.8	.9	D96752
Do.	-	T	1/4-inch by 0		2,080	2,100	2,180	12.1	.7	D96753
Mack (Mesa County)										
Carbonera	Carbonera	M		1	2,740	2,850	-	10.6	.6	A25541
Newcastle										
Newcastle	"F"	M		1	-	2,910+	-	10.2	.8	C78342
Do.	"E"	M		1	2,330	2,380	2,540	6.8	1.1	D26636
Do.	Wheeler	T	3-inch lump		2,320	2,360	2,570	7.9	.6	E29344
Do.	do.	T	3- by 1-1/2-inch		2,330	2,370	2,520	7.9	.6	E29345
Do.	do.	T	1-1/2- by 3/8-inch		2,200	2,340	2,500	8.3	.7	E29346
Do.	do.	T	3/8-inch by 0		2,320	2,360	2,460	9.2	.7	E29347
Red Ash	"E"	M		1	2,280	2,380	2,520	3.6	.4	D26637
Rifle										
Big Three	-	T	5-inch lump		2,910+	-	-	12.5	1.6	C36185
Do.	-	T	5- by 1-1/2-inch		2,780	2,850	2,910+	10.6	1.9	C36186
Do.	-	T	1-1/2-inch by 0		2,770	2,840	2,910+	11.1	1.7	C36187
Black Diamond	-	M		1	2,150	2,210	2,280	4.1	.7	99657
I. H. I. No. 2	-	T	6-inch lump		2,880	2,910+	-	7.7	.6	E41943
Do.	-	T	6- by 1-1/2-inch		2,810	2,910+	-	9.0	.6	E41944
Do.	-	T	1-1/2- by 1/4-inch		2,910+	-	-	9.0	.6	E41945
Do.	-	T	1/4-inch by 0		2,750	2,810	2,910+	10.3	.6	E41946
McLearn	-	M		1	2,060	2,210	2,340	5.7	.9	99658
North Canon	No. 1	T	1-1/2- by 3/16-inch		2,260	2,300	2,420	3.2	.4	E41941
Do.	do.	T	3/16-inch by 0		2,060	2,140	2,250	4.0	.5	E41942
Rauman	-	M		1	2,520	2,620	2,680	6.0	1.0	99659
Do.	-	M		1	2,800	2,870	2,910	7.3	.8	A96817
Rio Blanco (Rio Blanco Co.)										
Rio Blanco	-	T	Run-of-mine		2,100	2,150	2,440	9.3	.5	C42796
Silt										
Harvey Gap	"F"	T	5-inch lump		2,070	2,140	2,330	5.7	1.6	E28691
Do.	do.	T	5- by 1-1/4-inch		1,990	2,090	2,320	9.4	2.6	E28692
Do.	do.	T	1-1/4-inch by 0		2,120	2,220	2,360	12.1	2.0	E28693
Harvey Gap No. 2	-	M		1	1,910	1,990	2,260	6.7	2.8	B34036
Sunny Ridge	"C"	T	3-inch lump		2,420	2,520	2,620	7.1	.4	D56507
Do.	do.	T	3- by 1-1/4-inch		2,420	2,470	2,600	7.7	.4	D56508
Do.	do.	T	1-1/4- by 1/8-inch		2,360	2,440	2,620	11.0	.4	D56509
Do.	do.	T	1/8-inch by 0		2,310	2,360	2,520	9.0	.4	D56510

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Gunnison County										
Baldwin										
Alpine	-	M		5	2,130	2,230	2,430	4.8	.9	A92627 to A92631
Do.	No. 1	T	3-inch lump		2,150	2,260	2,520	5.6	.8	C25859
Do.	do.	T	3- by 1-1/2-inch		2,130	2,220	2,570	6.4	.7	C25860
Do.	do.	T	1-1/2-inch by 0		2,120	2,210	2,570	7.7	.8	C25861
Kubler	-	T	6-inch lump		2,280	2,330	2,590	5.9	.5	C83105
Do.	-	T	6- by 1-1/2-inch		2,250	2,310	2,620	6.0	.4	C83106
Do.	-	T	1-1/2-inch by 0		2,330	2,380	2,670	9.1	.4	C83107
Do.	-	M		1	2,290	2,360	2,660	6.3	.4	C83839
Star	-	T	1-1/2-inch lump		2,130	2,200	2,360	5.7	.9	C83208
Do.	-	T	1-1/2-inch by 0		2,040	2,130	2,330	6.7	1.3	C83209
Camp Genter										
Genter	-	M		3	2,090	2,220	2,420	7.0	.7	A17361 to A17363
Raddatz	-	M		2	2,110	2,450	2,540	7.4	.8	A34810 and A34811
Crested Butte										
Bulkley No. 2	-	T	6-inch lump		2,260	2,360	2,630	4.7	.5	B75843
Do.	-	T	6- by 1-1/2-inch		2,260	2,340	2,730	4.6	.5	B75844
Do.	-	T	6-inch by 0		2,200	2,280	2,750	4.9	.6	B75845
Crested Butte	Crested Butte	M		4	2,170	2,380	2,550	5.1	.4	A63318 to A63321
Do.	do.	T	6-inch lump		2,210	2,500	2,820	3.5	.4	B75057
Do.	do.	T	6- by 3-inch		2,210	2,500	2,840	3.7	.4	B75058
Do.	do.	T	3- by 1-1/2-inch		2,520	2,640	2,910+	6.2	.6	B75059
Do.	do.	T	1-1/2-inch by 0		2,350	2,550	2,890	6.9	.4	B75060
Do.	do.	T	Run-of-mine		2,190	2,220	2,300	7.3	.5	C25520
Elk Mountain	-	M		3	2,050	2,270	2,450	5.6	.7	93761 to 93763
Horace	Cheyenne	M		4	2,210	2,320	2,450	9.0	.8	A63324 to A63327
Do.	-	T	7- by 3-inch		2,330	2,380	2,630	9.7	.6	E44941
Do.	-	T	3- by 2-inch		2,310	2,360	2,630	10.4	.6	E44942
Do.	-	T	2- by 1-inch		2,220	2,310	2,510	8.7	.6	E44943
Do.	-	T	1- by 3/4-inch		2,200	2,270	2,450	8.2	.6	E44944
Do.	-	T	3/4-inch by 0		2,200	2,270	2,430	10.2	.6	E44945
Gunnison										
Hinkle	-	T	Run-of-mine		2,010	2,100	2,360	8.4	1.1	E74955
Nu-Mine	No. 1	T	3-inch lump		2,210	2,270	2,470	5.1	.6	C83204
Do.	do.	T	3- by 1-1/2-inch		2,140	2,190	2,360	5.7	.8	C83205
Do.	do.	T	Run-of-mine		2,150	2,290	2,470	7.8	.6	C83206
Do.	do.	T	5-inch lump		2,110	2,190	2,400	8.2	.6	E44755
Do.	do.	T	Run-of-mine		2,130	2,240	2,430	7.7	.6	E44756
O. C.	Baldwin	T	6-inch lump		2,250	2,290	2,650	4.8	.6	C25422
Do.	do.	T	6- by 1-1/2-inch		2,250	2,310	2,600	5.1	.6	C25423
Do.	do.	T	1-1/2-inch by 0		2,250	2,290	2,700	5.1	.6	C25424
O. C. No. 2	do.	T	3-inch lump		2,200	2,260	2,660	5.6	.6	C83838
Ohio Creek	No. 2	M		2	2,240	2,320	2,400	6.4	.6	93758 and 93759
Old Baldwin	-	T	1-1/4-inch lump		2,210	2,360	2,550	5.7	.7	D68183
Do.	-	T	1-1/4-inch by 0		2,160	2,340	2,500	7.2	.7	D68184
Richardson	Paonia No. 2	M		1	2,270	2,400	2,730	8.8	.7	B14962
Do.	-	T	1-1/4-inch lump		2,450	2,550	2,750	6.4	.5	C25289
Do.	-	T	1-1/4-inch by 0		2,250	2,470	2,620	6.2	.5	C25290
Kubler										
Nu-Mine No. 2	No. 1	T	3-inch lump		2,340	2,400	2,560	5.7	.4	E74956
Do.	do.	T	3-inch by 0		2,380	2,470	2,680	7.9	.4	E74957
Oliver										
Black Beauty	"E"	T	5-inch lump		2,130	2,180	2,450	3.4	.8	D87978
Do.	do.	T	5- by 1-1/2-inch		2,150	2,200	2,540	3.6	.4	D87979
Do.	do.	T	1-1/2-inch by 0		2,180	2,440	2,600	3.5	.4	D87980
Paonia										
(Outcrop in Coal Creek)	-	M		1	2,100	2,190	2,450	4.0	.5	C51021
Placita										
Hughes	-	M		1	2,190	2,320	2,430	6.4	.6	A34814

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Gunnison County (Con.)										
Somerset										
Bear	"E"	M		2	2,440	2,570	2,780	6.4	.6	D91882 and D91883
Do.	"C"	T	Run-of-mine		2,450	2,580	2,680	5.7	.5	D88464
Do.	do.	T	6-inch lump		2,180	2,220	2,420	3.4	.4	E40590
Do.	do.	T	6-inch by 0		2,390	2,510	2,680	5.5	.5	E40591
Davenport	-	M		1	2,440	2,570	2,730	5.3	.6	C82042
Edwards	-	M		1	2,230	2,360	2,750	7.3	.5	C23392
Do.	"B"	T	6-inch lump		2,310	2,500	2,640	8.2	.5	C35818
Do.	do.	T	6-inch by 0		2,310	2,500	2,650	9.1	.5	C35819
Do.	"C"	T	4-inch lump		2,160	2,260	2,400	7.9	.4	E41079
Do.	do.	T	4- by 1-1/2-inch		2,340	2,490	2,660	6.6	.4	E41080
Do.	do.	T	1-1/2-inch by 0		2,250	2,430	2,510	5.0	.4	E41081
Ferguson	-	M		1	2,020	2,140	2,430	4.4	.6	A73708
Hawks Nest	Hawks Nest	M		1	2,210	2,230	2,420	3.7	.4	C65909
Do.	"E"	T	6-inch lump		2,250	2,310	2,410	4.2	.4	E39643
Do.	do.	T	6- by 1-1/2-inch		2,230	2,270	2,390	4.2	.4	E39644
Do.	do.	T	1-1/2-inch by 0		2,220	2,260	2,450	3.7	.5	E39645
Oliver	"D"	T	3-inch lump		2,270	2,340	2,680	4.6	.5	C33081
Do.	do.	T	3- by 1-1/2-inch		2,320	2,420	2,680	5.4	.4	C33082
Do.	do.	T	1-1/2-inch by 0		2,250	2,290	2,470	5.5	.5	C33083
Do.	-	M		1	2,800	2,840	2,870	5.8	.5	D3901
Oliver No. 2	"D"	T	8-inch lump		2,680	2,840	2,910+	6.1	.5	D56761
Do.	do.	T	8- by 3-inch		2,680	2,840	2,910+	5.9	.5	D56762
Do.	do.	T	3- by 1-1/2-inch		2,780	2,890	2,910	9.0	.5	D56763
Do.	do.	T	1-1/2-inch by 0		2,620	2,680	2,730	6.2	.5	D56764
Do.	do.	T	8-inch lump		2,490	2,590	2,720	5.3	.4	D88542
Do.	do.	T	8- by 3-inch		2,340	2,480	2,670	7.3	.5	D88543
Do.	do.	T	3- by 1-1/2-inch		2,420	2,560	2,810	6.8	.6	D88544
Do.	do.	T	1-1/2-inch by 0		2,380	2,450	2,630	6.5	.5	D88545
Oliver No. 3	"E"	T	3-inch lump		2,320	2,470	2,550	3.9	.5	E49466
Do.	do.	T	3- by 1-1/2-inch		2,060	2,380	2,490	5.2	.5	E49467
Do.	do.	T	1-1/2-inch by 0		2,440	2,510	2,620	5.2	.6	E49468
(Outcrop in Munsey Creek)	-	M		1	2,360	2,410	2,540	6.2	.7	C80788
Do.	-	M		1	2,470	2,570	2,750	18.5	1.2	C80789
Do.	-	M		1	2,020	2,080	2,210	7.7	2.1	C80790
(Outcrop in Mt. Gunnison)	-	M		1	2,560	2,760	2,850	4.5	.6	C82043
Do.	-	M		1	2,330	2,580	2,700	4.0	1.0	C82044
Somerset	-	M		3	2,170	2,420	2,570	8.7	.5	A66017 to A66019
Do.	"B"	T	3- by 1-1/2-inch		2,210	2,390	2,660	9.8	.5	D88462
Do.	do.	T	1-1/2-inch by 0		2,210	2,420	2,630	8.9	.4	D88463
Do.	"C"	T	5-inch lump		2,260	2,470	2,750	10.4	.5	C84598
Do.	do.	T	5- by 3-inch		2,310	2,570	2,780	6.9	.6	C84599
Do.	do.	T	3-inch by 0		2,260	2,470	2,750	13.8	.7	C84600
Do.	do.	T	5-inch lump		2,730	2,780	2,840	4.2	.6	D56500
Do.	do.	T	5- by 3-inch		2,780	2,860	2,890	3.5	.6	D56501
Do.	do.	T	3- by 1-1/2-inch		2,890	2,910+	-	5.6	.6	D56502
Do.	do.	T	1-1/2-inch by 0		2,780	2,840	2,890	5.4	.7	D56503

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Tony Bear	Juanita	M		1	2,320	2,380	2,750	3.6	.6	B34032
Huerfano County										
Alamo										
Alamo	Walsen	M		4	2,280	2,370	2,440	9.2	.6	A4190 to A4193
Aguilar (Las Animas County)										
Leader	Rugby No. 1	T	1-1/4-inch lump		2,310	2,360	2,540	7.6	.6	B63870
Do.	do.	T	1-1/4-inch by 0		2,390	2,550	2,700	10.5	.9	B63871
Leader No. 2	Upper Rugby	T	1-1/4-inch lump		2,180	2,310	2,550	7.8	.8	E78205
Do.	do.	T	1-1/4-inch by 0		2,190	2,340	2,570	8.6	.7	E78206
Butte Valley										
Alamo No. 2	Vermejo	T	3-inch lump		2,310	2,350	2,470	10.1	.8	B63035
Do.	do.	T	3- by 1-1/4-inch		2,320	2,380	2,680	12.0	.8	B63036
Do.	do.	T	3- by 1-1/4-inch (W)		2,320	2,380	2,530	9.7	.7	B63037
Do.	do.	T	1-1/4-inch by 0		2,310	2,360	2,680	14.3	1.0	B63038
Do.	Cameron	T	6-inch lump		2,480	2,530	2,650	9.0	.7	C23058
Do.	do.	T	6- by 3-inch		2,430	2,490	2,660	9.9	.9	C23059
Do.	do.	T	3- by 1-1/4-inch (W)		2,390	2,460	2,670	10.1	.9	C23060
Do.	do.	T	1-1/4-inch by 0		2,360	2,450	2,680	16.9	1.4	C23061
Delcarbon										
Calumet No. 1	Walsen	M		4	2,200	2,340	2,530	9.9	.7	A64612 to A64615
Calumet No. 2	Cameron	M		2	2,210	2,320	2,520	9.4	1.1	A65541 and A65542
Do.	Lennox	M		3	2,340	2,510	2,630	13.5	.7	A65544 to A65546
Do.	Cameron	T	8-inch lump		2,400	2,460	2,670	10.2	.6	E35867
Do.	do.	T	8- by 3-inch		2,220	2,340	2,470	11.9	.9	E35868
Do.	do.	T	3- by 1-1/2-inch		2,210	2,330	2,460	13.8	1.0	E35869
Do.	do.	T	1-1/2-inch by 0		2,190	2,320	2,480	13.3	1.0	E35870
Farr										
Cameron	do.	T	Run-of-mine		2,370	2,430	2,690	12.1	.5	A59288
Do.	do.	M		4	2,280	2,400	2,620	12.8	.6	A59289 to A59292
La Veta										
Feru	-	M		1	2,130	2,220	2,400	14.7	1.9	A1562
Pictou										
Pictou	Walsen	T	3-inch lump		2,300	2,400	2,580	10.6	.7	A59275
Do.	do.	M		4	2,300	2,410	2,550	9.8	.7	A59276 to A59279
Pryor										
Black Hawk	Robinson	T	4-inch lump		2,070	2,230	2,420	6.1	.6	B63867
Do.	do.	T	4- by 1-1/2-inch		2,230	2,340	2,520	7.4	.6	B63868
Do.	do.	T	1-1/2-inch by 0		2,330	2,400	2,550	10.3	.7	B63869
Pryor	Lower Robinson	T	Run-of-mine		2,570	2,740	2,820	13.7	.7	B63231
Rouse										
Blue Blaze	Robinson	T	1-1/4-inch lump		2,620	2,760	2,840	7.6	.5	B63725
Do.	do.	T	1-1/4-inch by 0		2,620	2,760	2,900	10.7	.6	B63726
Rouse	Cameron	T	4-inch lump		2,310	2,450	2,710	8.6	.9	B63664
Do.	do.	T	4- by 2-inch		2,430	2,620	2,790	10.1	.8	B63665
Do.	do.	T	2-inch by 0		2,310	2,520	2,680	13.2	1.0	B63666
Rouse No. 1	Semi-Red Ash	T	1-1/4-inch lump		2,220	2,270	2,440	4.8	.4	C23395
Rugby (Las Animas County)										
Rugby No. 6	-	T	Run-of-mine		2,440	2,490	2,680	11.1	.7	E36883
Do.	Upper Rugby	T	2-inch lump		2,150	2,340	2,570	9.0	.8	E78203
Do.	do.	T	2-inch by 0		2,550	2,660	2,770	12.0	.8	E78204
Tioga										
Kebler	Walsen	T	Run-of-mine		2,230	2,260	2,480	12.0	.5	B63722
Kebler No. 2	Kebler	T	3-inch lump		2,080	2,160	2,310	8.0	.5	A59306
Do.	do.	M		3	2,120	2,190	2,340	9.4	.5	A59307 to A59309
Walsenburg										
Black Beauty	Upper Robinson	T	3-inch lump		2,430	2,490	2,820	10.6	.7	C22715
Do.	do.	T	3- by 1-1/4-inch		2,450	2,520	2,780	13.4	.5	C22716
Do.	do.	T	1-1/4-inch by 0		2,340	2,450	2,640	16.8	.6	C22717
Butte Valley	-	T	Run-of-mine		2,230	2,420	2,520	14.8	.8	D57575
Gordon	Cameron	T	6-inch lump		2,360	2,420	2,620	9.7	.8	E36877

1/ M, mine sample; T, tipple sample. 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Huerfano County (Con.)										
Walsenburg										
Gordon	Cameron	T	6- by 1-1/4-inch		2,240	2,320	2,650	10.7	1.1	E36878
Do.	do.	T	1-1/4-inch by 0		2,220	2,330	2,530	14.3	.9	E36879
Major No. 2	do.	T	8-inch lump		2,270	2,360	2,650	8.0	.9	B63011
Do.	do.	T	8- by 3-inch		2,270	2,380	2,720	7.7	.9	B63012
Do.	do.	T	3- by 1-1/4-inch		2,330	2,510	2,720	9.4	1.0	B63013
Do.	do.	T	1-1/4-inch by 0		2,170	2,310	2,700	12.2	1.2	B63014
Do.	Walsen	T	Run-of-mine		2,480	2,560	2,790	11.9	.7	E77684
Morning Glory	Upper Robinson	T	6-inch lump		2,430	2,490	2,700	8.6	.6	E36880
Do.	do.	T	6- by 1-1/4-inch		2,440	2,470	2,730	9.8	.5	E36881
Do.	do.	T	1-1/4-inch by 0		2,440	2,480	2,660	13.9	.6	E36882
Do.	do.	T	Run-of-mine		2,450	2,520	2,650	12.2	.7	E77685
Robinson No. 1	Walsen	T	3-inch lump		2,280	2,380	2,520	10.0	.6	A59269
Do.	do.	M		4	2,340	2,410	2,560	11.3	.7	A59270 to A59273
Jackson County										
Coalmont										
Moore	Coalmont	M		1	2,010	2,060	2,090	4.2	.5	A4373
Do.	Riasch	M		3	2,520	2,610	2,790	11.2	.4	A98325 to A98327
Do.	Coalmont	M		1	2,600	2,690	2,790	14.7	.4	C3368
Moore No. 2	Riasch	T	Run-of-mine		2,180	2,230	2,380	6.0	.5	C77708
Rabbitear	-	M		3	2,100	2,200	2,310	6.5	.5	B6377 to B6379
Cowdrey										
Sudduth	Sudduth	M		1	2,240	2,300	2,730	5.5	.6	B55213
Walden										
Case	-	M		1	2,130	2,150	2,190	6.6	.8	A4374
Lee Conrad	-	M		1	1,940	2,010	2,050	7.6	1.1	A72346
Marr	Sudduth	M		2	2,190	2,290	2,440	3.6	.1	A98329 and A98330
Do.	do.	T	1-1/2-inch lump		2,260	2,300	2,440	3.1	.3	C77632
Do.	do.	T	1-1/2- by 3/8-inch		2,260	2,360	2,570	3.5	.2	C77633
Do.	do.	T	3/8-inch by 0		2,180	2,280	2,430	3.9	.3	C77634
Mitchell	-	M		1	2,170	2,290	2,450	11.6	.9	A23140
Jefferson County										
Golden										
Van Winkle	-	M		1	2,390	2,420	2,500	5.6	.5	B32620
Leyden										
Fruth	-	M		2	2,050	2,090	2,130	7.0	1.6	B5574 and B5575
Leyden	Leyden	M		4	2,130	2,200	2,250	5.9	.6	B53109 to B53112
Do.	do.	T	8-inch lump		2,260	2,330	2,410	5.0	.3	B74726
Do.	do.	T	8- by 2-1/2-inch		2,310	2,340	2,390	4.8	.4	B74727
Do.	do.	T	2-1/2- by 1-1/2-inch		2,050	2,090	2,140	6.3	.3	B74728
Do.	do.	T	1-1/2- by 3/4-inch		2,220	2,260	2,380	5.3	.3	B74729
Do.	do.	T	3/4-inch by 0		2,130	2,170	2,320	6.1	.5	B74730
Leyden No. 3	-	T	6- by 2-1/2-inch		2,080	2,140	2,190	6.5	.6	A97109
Do.	-	T	2-1/2-inch by 0		2,050	2,090	2,150	7.0	.7	A97110

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Do.	-	M		4	2,160	2,210	2,290	5.6	.5	A97111 to A97114
Littleton (Arapahoe County)										
Unity	-	M		2	2,140	2,210	2,370	8.5	.6	A96684 and A96685
Virginia	-	T			2,090	2,140	2,250	9.7	.9	A96687
Do.	-	M		2	2,150	2,200	2,300	8.9	1.0	A96688 and A96689
Mt. Morrison										
Mount Carbon	-	M		3	2,040	2,120	2,160	8.3	.6	B66355 to B66357
La Plata County										
Bayfield										
Blue Jay	Mesa Verde	T	4-1/2-inch lump		2,730	2,820	2,910+	16.4	1.4	B69873
Do.	do.	T	4-1/2- by 1-1/2-inch		2,570	2,690	2,910+	12.3	1.2	B69874
Do.	do.	T	1-1/2- by 1/2-inch		2,380	2,560	2,910+	12.3	1.3	B69875
Do.	do.	T	1/2-inch by 0		2,360	2,510	2,910+	13.7	1.3	B69876
Durango										
Black Diamond	do.	T	5-inch lump		2,720	2,820	2,910+	5.6	.9	B69847
Do.	do.	T	5- by 1-1/2-inch		2,570	2,680	2,910	7.5	1.4	B69848
Do.	do.	T	1-1/2-inch by 0		2,680	2,770	2,910+	8.5	1.5	B69849
Castle	-	T	2-inch lump		2,480	2,540	2,750	5.9	1.0	D95700
Do.	-	T	2- by 1-inch		2,520	2,610	2,800	8.2	1.1	D94701
Do.	-	T	1- by 3/8-inch		2,620	2,730	2,860	6.5	1.0	D95702
Do.	-	T	3/8-inch by 0		2,550	2,700	2,810	7.1	1.1	D95703
Fireglow	-	M		1	2,910+	-	-	7.8	.7	C27504
Fireglow No. 2	-	M		1	2,910+	-	-	6.4	.8	B41137
Morning Star	No. 1	T	6-inch lump		1,960	2,150	2,370	6.4	2.5	E61440
Do.	do.	T	6- by 2-inch		2,050	2,370	2,570	6.2	1.9	E61441
Do.	do.	T	2- by 1-1/4-inch		2,330	2,500	2,590	6.3	1.8	E61442
Do.	do.	T	1-1/4-inch by 0		2,550	2,660	2,760	7.3	1.8	E61443
Murphy	-	M		1	2,780	2,810	2,880	7.6	.7	A41710
OK	Mesa Verde	T	3-inch lump		2,300	2,400	2,910+	3.7	.9	B69807
Do.	do.	T	3- by 2-inch		2,360	2,520	2,910+	4.7	.8	B69808
Do.	do.	T	2- by 1-1/2-inch		2,310	2,470	2,910+	4.6	.8	B69809
Do.	do.	T	1-1/2-inch by 0		2,100	2,330	2,680	6.2	.9	B69810
Peerless	No. 1	T	2-1/2-inch lump		2,760	2,850	2,910+	4.1	.7	F62694
Do.	do.	T	2-1/2- by 1-1/2-inch		2,860	2,910+	-	5.0	.7	E62695
Do.	do.	T	1-1/2-inch by 0		2,760	2,850	2,910+	5.7	.9	E62696
Sunshine	Mesa Verde	T	5-inch lump		2,650	2,780	2,910+	4.4	.9	B69843
Do.	do.	T	5- by 2-1/2-inch		2,620	2,720	2,910+	3.2	.8	B69844
Do.	do.	T	2-1/2- by 1-1/2-inch		2,710	2,790	2,910+	5.1	1.0	B69845
Do.	do.	T	1-1/2-inch by 0		2,650	2,760	2,910+	4.9	1.1	B69846
Supreme	-	M		1	2,150	2,230	2,590	6.3	2.0	B31220
Do.	Hesperus	T	2-1/2-inch lump		2,000	2,030	2,270	5.5	2.2	C13977
Do.	do.	T	2-1/2- by 3/4-inch		1,970	2,020	2,230	9.9	3.8	C13978
Do.	do.	T	3/4-inch by 0		1,980	2,030	2,220	12.4	3.5	C13979
Victory	-	T	4-inch lump		1,970	2,030	2,230	5.4	1.7	C92602
Do.	-	T	4- by 3-inch		2,360	2,390	2,680	6.7	1.6	C92603
Do.	-	T	3- by 1-inch		2,500	2,600	2,680	7.7	1.6	C92604
Do.	-	T	1-inch by 0		2,620	2,670	2,780	7.9	1.3	C92605
Victory No. 1	No. 1	T	Run-of-mine		2,540	2,650	2,910+	9.3	1.1	E62137
Victory No. 2	No. 3	T	do.		2,800	2,910	2,910+	6.2	.7	E62138
Hesperus										
Blue Flame	-	T	1-1/4-inch lump		2,800	2,840	2,910+	4.7	.6	D93383
Do.	-	T	1-1/4-inch by 0		2,850	2,910+	-	10.8	.8	D93384
Burnwell	-	T	Run-of-mine		2,760	2,890	2,910+	5.3	.7	D92438
Burnwell No. 2	No. 2	T	do.		2,800	2,900	2,910+	6.6	.6	E62266
Carbon Junction	-	T	do.		2,910+	-	-	28.5	.7	C13496
Coal King	-	T	3-inch lump		2,860	2,910+	-	5.4	.7	D93071
Do.	-	T	3-inch by 0		2,880	2,910+	-	7.8	.8	D93072
Coal King No. 1	Hesperus	T	2-inch lump		2,780	2,820	2,850	4.0	.8	C92245
Do.	do.	T	2-inch by 0		2,490	2,520	2,700	9.2	1.1	C92246

1 M, mine sample. T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
La Plata County (Con.)										
Hesperus										
Coal King No. 2	Hesperus	T	2-inch lump		2,910+	-	-	4.7	.7	C92241
Do.	do.	T	2- by 1-1/2-inch		2,910+	-	-	7.7	.8	C92242
Do.	do.	T	1-1/2-inch by 0		2,620	2,680	2,820	8.9	1.2	C92243
Dufur	do.	T	2-inch lump		2,030	2,140	2,270	8.4	2.1	C8677
Do.	do.	T	2-inch by 0		2,110	2,140	2,230	10.3	2.4	C8678
Durkan	do.	T	2-inch lump		2,910+	-	-	8.5	.6	C9334
Do.	do.	T	2-inch by 0		2,780	2,830	2,910+	9.6	.6	C9335
Hay Gulch	do.	T	1-1/4-inch lump		2,750	2,840	2,910+	5.1	.9	C9712
Do.	do.	T	1-1/4-inch by 0		2,550	2,650	2,760	8.2	1.4	C9713
Hay Gulch No. 2	do.	T	1-1/2-inch lump		2,470	2,500	2,620	5.6	1.1	C92082
Do.	do.	T	1-1/2- by 3/16-inch		1,970	2,130	2,310	12.6	2.0	C92083
Do.	do.	T	3/16-inch by 0		2,050	2,180	2,430	16.5	1.9	C92084
Hesperus No. 2	-	T	8-inch lump		2,680	2,730	2,860	4.6	.4	D93073
Do.	-	T	8- by 2-1/2-inch		2,820	2,890	2,910+	7.6	.5	D93074
Do.	-	T	2-1/2-inch by 0		2,860	2,910+	-	16.6	.6	D93075
Hunt, W. G.	Big Vein	M		1	2,010	2,060	2,470	9.9	5.0	A43428
La Plata	-	T	1-inch lump		2,810	2,850	2,910+	5.3	.5	D93385
Do.	-	T	1-inch by 0		2,860	2,910+	-	12.5	.7	D93386
Lucky Strike	-	M		1	2,910+	-	-	9.5	.8	C27506
Minoletti	Hesperus	T	6-inch lump		2,010	2,130	2,470	3.9	1.5	E61437
Do.	do.	T	6- by 1-1/2-inch		1,940	2,090	2,400	6.8	2.6	E61438
Do.	do.	T	1-1/2-inch by 0		1,990	2,090	2,380	6.8	2.6	E61439
Monarch	-	M		1	2,910+	-	-	7.5	.7	C27505
Peacock	-	T	4-inch lump		2,700	2,790	2,910	3.4	.6	D92907
Do.	-	T	4- by 2-inch		2,870	2,910+	-	5.5	.6	D92908
Do.	-	T	2-inch by 0		2,310	2,420	2,610	6.7	1.2	D92909
Rasmussen	-	M		1	2,850	2,870+	-	7.5	.6	A43426
Tepock	Big Vein	M		1	2,730	2,820	2,870+	5.7	.8	A43427
Wright No. 1	Hesperus	T	Run-of-mine		1,950	2,100	2,210	9.7	3.6	C8425
Wright No. 2	do.	T	do.		2,050	2,200	2,390	8.4	2.9	C8370
Do.	do.	T	2-1/4-inch lump		2,210	2,470	2,520	7.9	2.4	C92086
Do.	do.	T	2-1/4- by 1-1/4-inch		2,030	2,220	2,470	9.8	3.6	C92087
Do.	do.	T	1-1/4-inch by 0		2,080	2,230	2,420	7.8	2.6	C92088
Do.	do.	T	2-1/4-inch lump		1,950	2,090	2,470	7.4	2.9	E62267
Do.	do.	T	2-1/4- by 1-1/4-inch		1,940	2,070	2,470	9.7	3.9	E62268
Do.	do.	T	1-1/4-inch by 0		1,970	2,070	2,390	10.3	3.8	E62269
Kline										
Henderson	-	M		1	2,630	2,960	-	9.3	.9	A3402
Mancos (Montezuma County)										
Valley View	-	M		1	2,810	2,910+	-	6.7	.7	B41136
Marvel										
Fort Lewis	-	T	Run-of-mine		2,910+	-	-	9.2	.8	C10142
Larimer County										
Carr										
Bachy	-	M		2	2,160	2,250	2,360	13.5	3.0	A96623 and A96624

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Hackman No. 1		M		2	2,250	2,310	2,360	10.4	1.3	A96620 and A96621
Las Animas County										
Aguilar										
Aguilar Imperial	Empire	T	1-3/4-inch lump		2,910+	-	-	10.8	.7	E73554
Do.	do.	T	1-3/4-inch by 0		2,910+	-	-	13.3	.7	E73555
Bisulco	-	T	1-1/2-inch lump		2,760	2,840	2,880	11.1	.6	E36449
Do.	-	T	1-1/2-inch by 0		2,720	2,800	2,850	11.6	.6	E36450
Brodhead No. 2	-	T	1-1/2-inch lump		2,260	2,320	2,490	6.7	.8	E36451
Do.	-	T	1-1/2-inch by 0		2,310	2,380	2,540	8.3	.8	E36452
Creston	Robinson No. 2	T	3-inch lump		2,600	2,710	2,870	11.0	.7	B63008
Do.	do.	T	3- by 1-1/4-inch		2,740	2,870	2,910+	13.1	.7	B63009
Do.	do.	T	1-1/4-inch by 0		2,620	2,840	2,910+	14.0	.7	B63010
Daisy	-	T	3-inch lump		2,400	2,470	2,520	10.9	.6	B63964
Do.	-	T	3- by 1-1/4-inch		2,390	2,570	2,800	12.6	.6	B63965
Do.	-	T	1-1/4-inch by 0		2,570	2,750	2,890	17.4	.7	B63966
Gem	Robinson	T	3-inch lump		2,680	2,780	2,910	9.2	.9	E36875
Do.	do.	T	3-inch by 0		2,740	2,810	2,910+	12.1	.9	E36876
Green Canon	Alta	T	3-inch lump		2,280	2,360	2,590	7.0	.5	C21305
Do.	do.	T	3-inch by 0		2,780	2,840	2,910+	13.6	.5	C21306
Prosperity No. 2	-	T	Run-of-mine		2,750	2,890	2,910+	12.0	.7	E78434
South Black Diamond	-	T	1-1/4-inch lump		2,750	2,870	2,910+	11.6	.7	B64212
Do.	-	T	1-1/4-inch by 0		2,820	2,910+	-	14.5	.7	B64213
Berwind										
Tobasco	Hastings	T	3-inch lump		2,490	2,670	2,790	11.9	.6	A59300
Do.	do.	M		4	2,520	2,590	2,740	12.9	.7	A59301 to A59304
Toller	Berwind	T	3-inch lump		2,890	2,920+	-	12.4	.7	A59294
Do.	do.	M		4	2,680	2,920+(2) 2,570 (2)	2,700 (2)	11.0	.8	A59295 to A59298
Boncarbo										
Anchor	-	T	1-1/2-inch lump		2,470	2,590	2,800	18.7	.6	C20119
Do.	-	T	1-1/2-inch by 0		2,660	2,760	2,910	19.5	.7	C20120
Do.	Primero	T	4-inch lump		2,140	2,250	2,300	10.2	.6	C79481
Do.	do.	T	4-inch by 0		2,520	2,680	2,750	17.3	.6	C79482
Boncarbo	do.	M		3	2,290	2,430	2,510	16.4	.6	A11865 to A11867
Do.	do.	T	4-inch lump		2,360	2,410	2,690	13.2	.6	C19648
Do.	do.	T	4-inch by 0		2,490	2,620	2,860	18.4	.6	C19649
Dix	do.	T	Run-of-mine		2,460	2,520	2,680	12.6	.5	B62799
Eureka	-	T	1-1/2-inch lump		2,470	2,520	2,620	10.7	.5	D60347
Do.	-	T	1-1/2-inch by 0		2,620	2,840	2,890	14.2	.7	D60348
Bowen										
Thor	-	M		2	2,720	2,830	2,910	11.4	.9	86189 and 86190
Cokedale										
Martinez	-	T	Run-of-mine		2,370	2,440	2,610	12.4	.6	E73399
Delagua										
Delagua	Cass	T	do.		2,600	2,680	2,760	17.1	.7	C80237
Franklin	-	T	do.		2,390	2,500	2,670	10.4	.5	E36453
New Delagua No. 3	-	T	do.		2,470	2,490	2,520	11.1	.5	E78433
South Side	Cass	T	do.		2,380	2,460	2,650	13.4	.7	B64366
Ludlow										
Bear Canon No. 6	do.	M		3	2,470	2,610	2,790	12.7	.6	A74087 to A74089
Do.	-	T	3-inch lump		2,280	2,380	2,700	8.4	.6	C21468
Do.	-	T	3- by 1-1/2-inch		2,700	2,810	2,910+	12.4	.5	C21469
Do.	-	T	1-1/2-inch by 0		2,700	2,800	2,910+	14.1	.7	C21470
Berwind Canyon	Tabasco	T	1-1/2-inch lump		2,910+	-	-	16.0	.6	C21215
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	19.9	.6	C21216
Ludlow	Berwin	T	Run-of-mine		2,910+	-	-	19.8	.8	D60350
Taylor	Tabasco	T	do.		2,910+	-	-	16.5	.7	C21217
Morley										
Morley	Morley	M		5	2,790 (4)	2,890+(2) 2,820 (3)	2,860+(2) 2,850 (1)	13.4	.6	A59282 to A59286

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Las Animas County (Con.)										
Morley										
Morley	Raton	T	1-1/2-inch lump		2,860	2,910+	-	17.9	.7	C18820
Do.	do.	T	1-1/2-inch by 0		2,820	2,890	2,910+	17.4	.7	C18821
Rugby										
Kenneth	Robinson No. 2	T	6-inch lump		2,890	2,910+	-	12.8	.6	C79924
Do.	do.	T	6- by 3-inch		2,830	2,890	2,910+	12.4	.5	C79925
Do.	do.	T	3- by 1-1/4-inch		2,750	2,840	2,880	16.2	.5	C79926
Do.	do.	T	1-1/4-inch by 0		2,520	2,680	2,820	20.1	.7	C79927
New Primrose	-	T	1-1/2-inch lump		2,390	2,470	2,640	8.2	.5	B64602
Do.	-	T	1-1/2-inch by 0		2,430	2,680	2,830	11.3	.6	B64603
Rapson	-	T	6-inch lump		2,910+	-	-	12.8	.6	C80035
Do.	-	T	6- by 1-1/4-inch		2,910+	-	-	13.3	.7	C80036
Do.	-	T	1-1/4-inch by 0		2,910+	-	-	16.7	.7	C80037
Rapson No. 1	Robinson	T	5-inch lump		2,740	2,910	2,910+	8.6	.7	B64078
Do.	do.	T	5- by 1-1/4-inch		2,840	2,910+	-	11.8	.6	B64079
Do.	do.	T	1-1/4-inch by 0		2,770	2,890	2,910+	11.4	.8	B64080
Rapson No. 2	Walsen	M		1	2,850	2,910+	-	11.7	.7	B64596
Do.	do.	T	1-1/2-inch lump		2,860	2,910+	-	13.3	.6	E73400
Do.	do.	T	1-1/2-inch by 0		2,890	2,910+	-	16.4	.6	E73401
Starkville										
Starkville No. 4	No. 5	T	1-1/4-inch lump		2,910+	-	-	19.5	.6	E33946
Do.	do.	T	1-1/4-inch by 0		2,910+	-	-	16.1	.9	E33947
Starkville No. 7	do.	T	1-1/4-inch lump		2,850	2,910+	-	20.7	.6	E33944
Do.	do.	T	1-1/4-inch by 0		2,870	2,910+	-	17.0	.8	E33945
Trinidad										
Baldy	No. 2	T	1-1/4-inch lump		2,890	2,910+	-	17.8	.6	D57320
Do.	do.	T	Run-of-mine		2,890	2,910+	-	20.5	.5	D57321
Do.	do.	T	1-1/4-inch by 0		2,890	2,910+	-	21.9	.5	D57322
Baldy No. 1	do.	T	1-1/4-inch lump		2,800	2,910+	-	16.7	.5	D87108
Do.	do.	T	1-1/4- by 1/4-inch		2,780	2,890	2,910+	20.0	.5	D87109
Do.	do.	T	1/4-inch by 0		2,520	2,670	2,890	18.9	.6	D87110
Baldy No. 2	do.	T	Run-of-mine		2,910+	-	-	20.3	.6	E74090
Burro Canyon No. 3	Primero	T	2-inch lump		2,440	2,520	2,680	13.3	.5	D87106
Do.	do.	T	2-inch by 0		2,470	2,630	2,800	15.7	.5	D87107
Dix No. 2	do.	M		4	2,400	2,490	2,790	10.3	.6	B50722 to B50725
Engleville	Starkville	T	1-1/2-inch lump		2,840	2,910+	-	13.9	.6	E34081
Do.	do.	T	1-1/2-inch by 0		2,810	2,910+	-	14.8	.5	E34082
Gray Creek No. 6	No. 4	T	Run-of-mine		2,880	2,910+	-	13.9	.7	E74091
Lovato No. 2	Primero	T	do.		2,480	2,530	2,700	12.8	.6	C21471
Peacock	Tabasco	M		2	2,800 (1)	2,910+(2)	-	11.7	.7	B50657 and B50658
Do.	-	T	1-1/2-inch lump		2,420	2,460	2,570	12.2	.6	E34077
Do.	-	T	1-1/2-inch by 0		2,750	2,800	2,910+	16.1	.6	E34078
R & G	No. 4	T	1-1/2-inch lump		2,910+	-	-	22.6	.5	C80040
Do.	do.	T	1-1/2-inch by 0		2,850	2,910+	-	19.1	.6	C80041
Valdez										
Frederick	Frederick	M		1	2,440	2,640	2,870	9.1	.6	B50660
Do.	do.	T	1-1/2-inch lump		2,690	2,820	2,910	22.9	.5	C18978

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Do.	do.	T	1-1/2-inch by 0		2,500	2,680	2,800	15.1	.5	C18979
Vallorso										
Bear Canon	Bear Canon	T	3-inch lump		2,180	2,460	2,630	8.8	.6	B64476
Do.	do.	T	Run-of-mine		2,480	2,620	2,820	12.3	.6	B64477
Bear Canon No. 3	Middle Series	M		3	2,240	2,530	2,700	11.4	.9	A19457 to A19459
Prairie Canon	Bear Canon	M		1	2,370	2,620	2,680	10.1	.6	A1537
Mesa County										
Cameo										
Cameo	Cameo	T	6-inch lump		2,500	2,540	2,570	8.0	.6	C82762
Do.	do.	T	6- by 1-1/2-inch		2,780	2,860	2,880	11.7	.7	C82763
Do.	do.	T	1-1/2-inch by 0		2,710	2,800	2,850	11.6	.7	C82764
Do.	do.	T	Run-of-mine		2,800	2,900	2,910+	10.9	.7	E65971
Riverview	do.	T	do.		2,660	2,700	2,730	9.4	.7	C82676
Do.	do.	T	6-inch lump		2,910+	-	-	8.2	.6	E66360
Do.	do.	T	6- by 3-inch		2,840	2,910+	-	9.8	.6	E66361
Do.	do.	T	3- by 1-1/2-inch		2,670	2,750	2,910+	11.2	.6	E66362
Do.	do.	T	1-1/2-inch by 0		2,580	2,700	2,910+	10.1	.7	E66363
Fruita										
Bunniger	-	M		1	2,910+	-	-	11.8	.7	A4951
Campbell No. 2	Palisade	M		2	2,710	2,790	2,880	7.1	.5	A81053 and A81054
Coal Gulch No. 2	Anchor	T	Run-of-mine		2,050	2,270	2,510	12.9	1.9	C85527
Farmers	do.	T	1-1/2-inch lump		2,660	2,750	2,880	6.0	1.0	E39098
Do.	do.	T	1-1/2-inch by 0		2,320	2,460	2,620	9.8	1.6	E39099
Hidden Treasure	Palisade	T	3-inch lump		2,340	2,440	2,650	4.9	.6	E38837
Do.	do.	T	3- by 1-1/2-inch		2,670	2,740	2,840	5.0	.5	E38838
Do.	do.	T	1-1/2-inch by 0		2,620	2,710	2,860	6.5	.5	E38839
Do.	do.	T	3-inch lump		2,870	2,910+	-	6.7	.6	E75103
Do.	do.	T	3-inch by 0		2,680	2,800	2,910+	10.0	.6	E75104
Hunter	Cameo	T	1-1/2-inch lump		2,910+	-	-	14.0	.6	E65257
Do.	do.	T	1-1/2-inch by 0		2,800	2,910+	-	11.4	.7	E65258
Hygrade	Palisade	T	5-inch lump		2,470	2,560	2,890	6.2	.6	E65259
Do.	do.	T	5- by 3-inch		2,520	2,600	2,760	6.7	.6	E65260
Do.	do.	T	3-inch by 0		2,530	2,620	2,760	8.3	.7	E65261
McGinley	Cameo	T	1-1/2-inch lump		2,910+	-	-	10.0	.5	E39240
Do.	do.	T	1-1/2-inch by 0		2,770	2,890	2,910+	11.2	.7	E39241
Nearing	-	T	1-1/2-inch lump		2,590	2,720	2,910+	5.9	1.0	D74998
Do.	-	T	1-1/2-inch by 0		2,050	2,340	2,680	7.5	1.2	D74999
Grand Junction										
Boyer	Palisade	M		1	2,190	2,510	2,630	7.6	.8	A23542
Farmers Mutual	Thomas	T	5-inch lump		2,160	2,220	2,730	6.8	.7	C36284
Do.	do.	T	5- by 1-1/2-inch		2,210	2,270	2,670	6.6	.7	C36285
Do.	do.	T	1-1/2- by 1-inch		2,210	2,300	2,760	7.8	.8	C36286
Do.	do.	T	1- by 1/4-inch		2,200	2,270	2,840	7.5	.7	C36287
Do.	do.	T	1/4-inch by 0		2,180	2,440	2,840	11.2	.8	C36288
Grasso	-	M		1	1,940	2,040	2,320	8.6	2.4	A73711
Do.	Palisade	T	1-1/2-inch lump		2,110	2,260	2,620	6.5	.9	C35858
Do.	do.	T	1-1/2-inch by 0		2,110	2,160	2,470	7.8	1.3	C35859
Peacock	-	M		1	2,440	2,650	2,710	7.3	.8	A40970
Thomas	Thomas	T	5-inch lump		2,010	2,140	2,490	7.4	.9	C36188
Do.	do.	T	5- by 1-1/2-inch		2,110	2,210	2,570	8.6	.6	C36189
Do.	do.	T	1-1/2- by 3/4-inch		2,180	2,230	2,570	8.7	.7	C36190
Do.	do.	T	1-1/2-inch by 0		2,170	2,210	2,570	8.5	.7	C36191
Williams	Palisade	M		1	2,060	2.240	2,400	7.1	.7	A23543
Palisade										
Blue Flame	Cameo	T	10-inch lump		2,690	2,800	2,910+	10.3	.6	E29605
Do.	do.	T	2- by 1-1/4-inch		2,600	2,700	2,770	10.6	.7	E29606
Do.	do.	T	1-1/4-inch by 0		2,620	2,660	2,760	12.4	.7	E29607
Garfield	Palisade	T	4-1/2-inch lump		2,520	2,620	2,750+	6.8	.8	B70249
Do.	do.	T	4-1/2- by 1-3/4-inch		2,540	2,650	2,910+	8.1	.7	B70250
Do.	do.	T	1-3/4- by 1-1/2-inch		2,590	2,710	2,910+	10.3	.7	B70251

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Mesa County (Con.)										
Palisade										
Garfield	Palisade	T	1-1/2- by 1/8-inch		2,280	2,410	2,870	13.7	.9	B70252
Do.	do.	T	1/8-inch by 0		2,350	2,420	2,900	17.0	1.0	B70253
Gearhart	do.	M		1	1,960	2,200	2,400	7.2	.7	A23189
Do.	do.	T	3-inch lump		2,180	2,270	2,500	7.5	.6	D88937
Do.	do.	T	3- by 1-1/2-inch		2,260	2,530	2,670	9.0	.7	D88938
Do.	do.	T	1-1/2- by 1/4-inch		2,470	2,600	2,670	9.2	.8	D88939
Do.	do.	T	1/4-inch by 0		2,180	2,290	2,420	14.4	1.0	D88940
Do.	do.	T	5-inch lump		2,430	2,500	2,720	6.1	.7	E29608
Do.	do.	T	5- by 1-1/2-inch		2,450	2,580	2,700	6.3	.6	E29609
Do.	do.	T	1-1/2- by 1/4-inch		2,910+	-	-	11.1	.7	E29610
Do.	do.	T	1/4-inch by 0		2,720	2,760	2,850	16.5	1.1	E29611
Midwest Red Arrow	do.	T	4-1/2-inch lump		2,070	2,220	2,470	7.9	1.8	B70759
Do.	do.	T	4-1/2- by 1-1/2-inch		2,100	2,430	2,870	7.5	1.5	B70760
Do.	do.	T	1-1/2-inch by 0		2,090	2,300	2,520	6.9	1.7	B70761
Mt. Garfield	do.	T	3-inch lump		2,210	2,330	2,470	5.3	.8	C85094
Do.	do.	T	3- by 1-1/2-inch		2,520	2,590	2,650	6.0	.8	C85095
Do.	do.	T	1-1/2- by 1-inch		2,660	2,750	2,770	8.2	.8	C85096
Do.	do.	T	1- by 1/4-inch		2,620	2,730	2,780	9.5	.9	C85097
Do.	do.	T	1/4-inch by 0		2,540	2,620	2,650	14.1	1.0	C85098
Palisade	do.	T	5-inch lump		2,360	2,420	2,790	5.8	.6	C36774
Do.	do.	T	5- by 1-1/2-inch		2,650	2,700	2,840	7.9	.8	C36775
Do.	do.	T	1-1/2-inch by 0		2,720	2,780	2,860	13.5	.8	C36776
Riverside Farmers	do.	T	3-inch lump		2,360	2,590	2,710	9.6	1.0	C85522
Do.	do.	T	3- by 1-inch		2,360	2,470	2,680	13.0	1.4	C85523
Do.	do.	T	1- by 1/4-inch		2,130	2,200	2,510	13.1	1.6	C85524
Do.	do.	T	1/4-inch by 0		2,270	2,380	2,620	13.9	1.1	C85525
Winger	Cameo	M		2	2,430	2,540	2,660	9.1	.7	B15703 and B15704
Do.	do.	T	3-inch lump		2,820	2,910+	-	9.3	.6	D96541
Do.	do.	T	3- by 1-inch		2,870	2,910+	-	10.6	.7	D96542
Do.	do.	T	1-inch by 0		2,630	2,720	2,860	10.8	.7	D96543
Moffat County										
Axial										
James	-	M		1	2,380	2,420	2,570	4.7	.5	C26466
Phelan	-	M		1	2,440	2,480	2,580	3.4	.4	A42969
Red Wing	Collum	T	5-inch lump		2,480	2,520	2,690	3.3	.3	C43580
Do.	do.	T	5- by 1-1/4-inch		2,430	2,480	2,610	3.8	.3	C43581
Do.	do.	T	1-1/4-inch by 0		2,430	2,470	2,610	3.6	.3	C43582
Do.	do.	M		2	2,440	2,510	2,560	3.0	.5	D51896 and D51897
Craig										
Baker	Hart	M		1	2,210	2,300	2,480	5.5	.7	D80980
Blair	-	M		1	2,250	2,380	2,580	6.2	.6	A73716
Brant	-	M		1	2,360	2,450	2,570	7.4	.5	A42970
Bridges	-	M		1	2,060	2,180	2,290	4.7	.3	93313
Eberly	-	M		1	2,090	2,180	2,340	5.9	.6	93315
Edmundson	-	M		1	2,060	2,090	2,180	6.2	1.6	92664

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Evans	-	M		1	2,220	2,390	2,620	4.4	.9	86078
Haughey	-	M		1	2,060	2,090	2,180	5.2	.9	92665
Hindman	Kimberly	M		1	2,240	2,270	2,320	5.6	.8	A3770
Jim Campbell	-	M		1	2,200	2,240	2,290	5.8	.5	92669
Kimberly	-	M		1	-	2,200	2,220	5.0	.7	92670
Knez	-	T	3-inch lump		2,340	2,380	2,520	5.9	.4	C77996
Do.	-	T	3- by 1-1/4-inch		2,340	2,380	2,600	6.1	.3	C77997
Do.	-	T	1-1/4- by 3/8-inch		2,360	2,400	2,620	7.4	.3	C77998
Do.	-	T	3/4-inch by 0		2,460	2,560	2,680	9.4	.4	C77999
Do.	-	M		3	2,130	2,200	2,440	5.3	.4	D81244 to D81246
Little Bear	Seymour	M		1	2,340	2,420	2,560	6.4	.2	A73715
Miller	-	M		1	2,130	2,180	2,240	5.4	.9	92666
Mt. Evans	-	M		1	2,090	2,130	2,340	6.7	.4	93316
Mt. Streeter	No. 10	M		2	-	2,450	2,510	2.9	.3	93309 and 93310
Prather	Miller	M		1	2,770	2,850	2,940	7.8	.8	A73713
Producers No. 1	-	M		2	2,290	2,350	2,420	5.4	.6	93306 and 93307
Richards	Seymour	M		1	2,340	2,390	2,450	5.9	.4	A2700
Seymour	-	M		1	2,190	2,260	2,390	5.2	.3	93312
Star	-	M		1	1,910	2,050	2,120	9.4	.4	93314
Streeter	-	T	3- by 1-1/4-inch		2,540	2,580	2,780	5.0	.3	C42483
Walker	-	M		1	2,150	2,230	2,420	4.7	.8	92668
Wise Hill No. 2	"A"	M		1	2,910+	-	-	10.2	.8	D80979
Hamilton										
Whitlock	-	M		1	2,260	2,410	2,530	4.2	1.1	A23633
Lay										
Grassie	-	M		1	1,990	2,040	2,150	5.9	.6	A34343
Montezuma County										
Cortez										
Cushman	-	M		1	2,270	2,440	2,490	7.8	.7	A45506
Montezuma No. 2	No. 2	T	1-1/2-inch lump		2,760	2,890	2,910+	5.0	.6	E58657
Do.	do.	T	1-1/2-inch by 0		2,790	2,910+	-	13.8	.8	E58658
Mancos										
Burnham	-	M		1	2,700	2,800	2,860	6.2	.7	A3406
Hanert	-	M		1	2,740	2,850	2,870	7.0	.7	A3405
Mancos	Schidler	T	3/4-inch lump		2,750	2,820	2,910	6.5	.5	C10386
Do.	do.	T	3/4-inch by 0		2,740	2,810	2,880	8.0	.6	C10387
Wilden	-	M		1	-	2,870+	-	8.0	.7	A35862
Do.	Thompson Park	T	1-inch lump		2,820	2,870	2,910+	7.5	1.0	C10193
Do.	do.	T	1-inch by 0		2,910+	-	-	10.6	.9	C10194
Pleasant Valley										
Jackson	-	M		1	2,100	2,210	2,570	14.9	4.7	C46436
Towaoc										
Ute Mtn. Indian School	-	M		1	2,850	2,950	-	10.9	.7	94198
Montrose County										
Cimarron										
Cimarron	-	M		1	2,470	2,520	2,550	10.4	.5	C62785
Nucla										
Independence	-	T	4-inch lump		2,910+	-	-	8.6	.7	E41607
Do.	-	T	4- by 2-1/2-inch		2,910+	-	-	8.8	.6	E41608
Do.	-	T	2-1/2-inch by 0		2,910+	-	-	12.8	.7	E41609
Independent	-	M		1	2,500	2,620	2,680	10.5	1.1	A14444
Liberty Bell	-	M		2	2,740 (1)	2,870+(2)	-	9.4	.9	A14441 and A14442
Ouray County										
Ridgway										
Slagle	-	M		1	2,380	2,480	2,620	8.0	.6	A23484

1 M, mine sample; T, tipple sample 2 W, washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Park County										
Como										
Como	-	M		1	2,550	2,700	2,770	7.5	.5	A56569
Pitkin County										
Carbondale										
Aspen Gulch	Sunshine	T	Run-of-mine		2,570	2,680	2,780	7.9	.6	D66849
Do.	do.	T	1-1/2-inch lump		2,570	2,680	2,780	8.7	.4	D66847
Do.	do.	T	1-1/2-inch by 0		2,700	2,750	2,840	8.2	.5	D66848
Thompson Creek No. 1	"B"	T	Run-of-mine		2,390	2,500	2,730	8.9	1.0	E76234
Thompson Creek No. 3	Anderson	T	do.		2,390	2,440	2,610	8.1	.7	E76341
Marble (Gunnison County)										
Prospect	-	M		1	2,030	2,210	2,320	7.1	.7	A72347
Placita										
Placita No. 2	-	M		1	2,320	2,410	2,500	5.9	.5	B65175
Redstone										
Coryell	-	M		2	2,130	2,240	2,370	5.1	.7	96263 and 96264
Rio Blanco County										
Meeker										
Blue Streak	-	T	5-inch lump		2,910+	-	-	6.9	.7	C78319
Do.	-	T	5- by 1-1/2-inch		2,910	2,910+	-	7.0	.6	C78320
Do.	-	T	1-1/2-inch by 0		2,730	2,840	2,910+	6.6	.8	C78321
Do.	-	T	6-inch lump		2,490	2,530	2,780	6.5	.7	E64706
Do.	-	T	6- by 2-inch		2,570	2,720	2,860	5.8	.6	E64707
Do.	-	T	1-1/4- by 1/4-inch		2,730	2,810	2,880	6.4	.6	E64708
Do.	-	T	1/4-inch by 0		2,760	2,840	2,890	7.0	.6	E64709
Coats	Fairfield	M		1	2,390	2,440	2,740	4.9	.6	B34467
Foreman	-	M		1	2,110	2,520	2,680	6.4	1.0	A23215
Pollard	-	M		2	2,470	2,570	2,760	6.0	.6	A73717 and A73718
Rienau	Fairfield	M		1	2,270	2,370	2,650	4.1	.6	B34466
Do.	do.	M		1	2,710	2,760	2,870	3.6	.5	C78324
Do.	-	T	4-inch lump		2,680	2,750	2,840	3.7	.5	E11282
Do.	-	T	4- by 1-1/2-inch		2,560	2,630	2,780	5.3	.9	E11283
Do.	-	T	1-1/2-inch by 0		2,530	2,610	2,710	3.7	.5	E11284
Rangley										
Rector	-	M		1	2,200	2,280	2,350	5.0	.5	81024
Rio Blanco										
Ford	-	M		1	1,970	2,030	2,100	7.1	.9	A72854
Routt County										
Bear River										
Bear River	Bear River	M		4	2,310	2,350	2,390	6.1	.5	A2187 to A2190
Butcher Knife	Butcher Knife	M		1	2,440	2,480	2,520	4.9	.7	A2395
Colorado Pinnacle	Pinnacle	M		1	2,250	2,440	2,630	7.0	.5	A72342
Jones	-	M		1	2,490	2,740	2,870+	6.3	.7	A42971
Do.	-	M		1	2,400	2,520	2,810	4.3	.6	A72344

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Prospect (on Yampa River)	-	M		1	2,680	2,740	2,760	9.1	.7	A2483
Coal View										
Allen (Prospect)	-	M		1	3,000+	-	-	7.5	.5	A2480
Do.	-	M		1	2,510	2,740	2,760	5.5	.5	A2481
Routt Pinnacle	Pinnacle	M		1	2,680	2,740	2,760	6.1	.5	A2482
Columbine										
Fleming	-	M		1	2,790	2,830	2,870+	7.9	.9	A34344
Craig (Moffat County)										
White	-	M		1	2,000	2,060	2,090	5.0	.6	92662
Williams	-	M		1	2,200	2,340	2,510	4.2	.5	93304
Deep Creek										
Franz	-	M		1	2,230	2,280	2,460	4.3	.8	A3049
New Ducey	-	M		1	2,230	2,350	2,500	3.3	1.0	A3034
Old Prospect	-	M		3	2,230	2,320	2,430	8.2	.6	A3050 to A3052
Haybro										
Hayden No. 3	Pinnacle	M		3	2,330	2,390	2,500	6.0	.8	A13689 to A13691
Do.	No. 3	T	3-inch lump		2,420	2,470	2,840	4.8	.6	B76709
Do.	do.	T	3- by 1-1/4-inch		2,410	2,490	2,810	7.0	.9	B76710
Do.	do.	T	1-1/4-inch by 0		2,630	2,690	2,910	10.0	.8	B76711
Do.	No. 4	M		1	2,140	2,170	2,210	4.4	1.5	B91072
Do.	do.	T	3-inch lump		2,150	2,230	2,470	5.3	1.1	D55242
Do.	do.	T	3- by 1-1/4-inch		2,180	2,210	2,470	6.6	1.1	D55243
Do.	do.	T	1-1/4- by 1/4-inch		2,210	2,360	2,540	10.5	1.1	D55244
Do.	do.	T	1/4-inch by 0		2,150	2,390	2,570	9.8	1.1	D55245
Hayden No. 4	do.	T	3-inch lump		2,070	2,120	2,540	4.7	1.7	B76712
Do.	do.	T	3- by 1-1/4-inch		2,000	2,040	2,330	6.7	2.0	B76713
Do.	do.	T	1-1/4-inch by 0		2,110	2,140	2,540	7.3	1.6	B76714
Hayden										
Babson	-	M		1	2,000	2,310	2,600	3.5	.5	A34975
Carroll (Prospect)	-	M		1	2,000	2,070	2,110	5.1	.6	C78002
Cary	-	M		1	2,280	2,390	2,420	5.5	.7	92663
Commander	-	T	Run-of-mine		2,760	2,880	2,910+	8.2	.5	E64846
Coryell	-	T	3-inch lump		2,170	2,230	2,590	4.8	.3	B76952
Do.	-	T	3- by 1-1/4-inch		2,310	2,340	2,740	5.4	.4	B76953
Do.	-	T	1-1/4-inch by 0		2,380	2,410	2,690	6.5	.3	B76954
Cozad	-	M		1	2,240	2,390	2,450	4.0	.5	93303
Crowbar	Dry Creek	T	4-inch lump		2,100	2,150	2,360	5.0	.4	E64571
Do.	do.	T	4- by 2-inch		2,360	2,420	2,560	6.8	.4	E64572
Do.	do.	T	1-1/4- by 1/2-inch		2,340	2,470	2,570	6.4	.3	E64573
Do.	do.	T	1/2-inch by 0		2,260	2,390	2,570	6.3	.4	E64574
Dry Creek	-	M		1	2,240	2,340	2,390	5.9	.4	93305
Farmers	Basal	M		1	2,020	2,090	2,160	6.7	.5	94194
Lindholm	-	M		1	2,510	2,570	-	12.7	.5	94195
Lionel Tuck	-	M		1	2,030	2,110	2,170	4.0	.7	A3168
Lorella	-	M		1	1,940	2,030	2,150	8.1	.7	94193
Moffat Coal Co. No. 1	-	M		3	2,820	2,900	2,960	11.4	.7	A3035 to A3037
Moffat Coal Co. No. 2	-	M		4	2,790 (3)	3,010+(1)	3,010+(1)	12.7	.9	A3043 to A3046
						2,910 (3)	2,920 (2)			
Moffat Coal Co. No. 3	-	M		2	2,470	2,650	2,920+(1)	15.6	.6	A3039 and A3040
							2,450			
(Outcrop)	-	M		2	2,150	2,190	2,220	6.3	.7	A3166 and A3167
Pilot Knob (Prospect)	-	M		1	2,420	2,490	2,700	12.9	.5	B7652
Do.	-	M		1	2,500	2,700	2,780	9.7	.6	B7653
Do.	-	M		1	-	2,910+	-	12.0	.7	B7654
Do.	-	M		1	2,410	2,550	2,810	9.6	.6	B7655
Do.	-	M		1	-	2,910+	-	8.3	.7	B7656
Ramsay No. 1	-	T	6-inch lump		2,260	2,290	2,360	4.9	.4	C42484
Do.	-	T	6- by 1-1/4-inch		2,310	2,360	2,740	5.1	.3	C42485
Do.	-	T	1-1/4-inch by 0		2,330	2,380	2,570	6.8	.4	C42486
Rice	Pinnacle	T	3-inch lump		2,420	2,470	2,650	5.6	.7	E63733
Do.	do.	T	3-inch by 0		2,400	2,520	2,800	8.9	.9	E63734

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Routt County (Con.)										
Hayden										
Rose	-	M		1	1,890	2,030	2,170	5.2	.3	93317
Sleepy Cat	-	M		1	2,020	2,070	2,210	5.3	1.0	A23375
Do.	-	T	3-inch lump		2,310	2,350	2,620	6.0	.3	C42216
Sleepy Cat No. 2	-	T	do.		2,380	2,400	2,850	5.8	.3	B76987
Do.	-	T	3- by 1-1/4-inch		2,310	2,390	2,580	5.5	.3	B76988
Do.	-	T	1-1/4- by 3/8-inch		2,390	2,410	2,720	5.2	.4	B76989
Do.	-	T	3/8-inch by 0		2,280	2,340	2,680	5.8	.4	A76990
Stroud	-	M		1	1,940	2,040	2,160	4.9	.6	93318
McGregor										
Black Dan	Wadge	T	3-inch lump		2,520	2,680	2,890	8.0	.6	C86641
Do.	do.	T	3- by 1-1/4-inch		2,520	2,730	2,840	10.5	.5	C86642
Do.	do.	T	1-1/4- by 1/2-inch		2,360	2,470	2,520	8.9	.6	C86643
Do.	do.	T	1/2-inch by 0		2,210	2,360	2,420	10.9	.7	C86644
Dunn & Fifield	Wolf Creek	T	Run-of-mine		2,350	2,500	2,760	11.7	.7	C77083
McGregor	do.	T	do.		2,600	2,690	2,890	10.9	.5	C42574
Milner										
McCroskey-Amos	Pinnacle	M		1	2,790	2,850	2,870	6.2	.6	A3336
Monger-Grey	-	M		1	2,420	2,620	2,680	5.1	.7	A3337
Osage	Wadge	T	16- by 3-inch		2,560	2,630	2,780	6.6	.5	E28266
Do.	do.	T	3- by 2-inch		2,540	2,590	2,680	6.0	.5	E28267
Do.	do.	T	1-1/4- by 1/4-inch		2,480	2,570	2,680	5.9	.6	E28268
Do.	do.	T	1/4-inch by 0		2,340	2,450	2,540	7.3	.7	E28269
Schmidt Bros.	-	M		1	2,390	2,450	2,510	4.5	1.3	A2698
Tow Creek	-	M		1	2,340	2,400	2,530	4.4	.6	B57508
Walker	-	M		1	2,070	2,360	2,460	7.2	1.9	A42972
Yampa	Wadge	M		1	2,370	2,450	2,510	7.0	.7	A13693
Mt. Harris										
Dixie	-	T	Run-of-mine		2,350	2,410	2,660	8.1	.6	C43893
Harris	Wadge	M		1	2,770	2,850	2,950+	5.5	.5	A72339
Do.	do.	T	3-inch lump		2,910+	-	-	7.7	.4	E10566
Do.	do.	T	3- by 1-1/4-inch		2,800	2,910+	-	8.0	.4	E10567
Do.	do.	T	1-1/4- by 3/8-inch		2,780	2,880	2,910+	7.7	.4	E10568
Do.	do.	T	3/8-inch by 0		2,620	2,720	2,820	7.9	.4	E10569
Do.	do.	T	1-1/4-inch by 0		2,710	2,800	2,910	8.6	.5	E10570
Harris No. 1	do.	M		3	2,800	2,850	2,910+	7.6	.5	C93449 to C93451
Harris No. 2	Wolf Creek	M		2	2,420	2,500	2,570	10.3	.4	A2184 and A2185
Mosuro	Wadge	M		1	2,740	2,840	2,920	7.2	.6	A72852
Moorehouse	-	M		2	2,320	2,420	2,550	5.2	.7	A3031 and A3032
(Prospect)	Pinnacle	M		1	2,860	2,910	2,910+	6.1	.6	C22294
Rusty	do.	T	8-inch lump		2,820	2,860	2,890	5.5	.5	C42487
Do.	do.	T	8- by 1-1/4-inch		2,910+	-	-	7.6	.6	C42488
Do.	do.	T	1-1/4-inch by 0		2,860	2,900	2,910+	8.7	.6	C42489
Wadge	Wadge	T	8-inch lump		2,910+	-	-	7.2	.3	D54567
Do.	do.	T	8- by 3-inch		2,910+	-	-	7.5	.4	D54568
Do.	do.	T	3- by 1-1/4-inch (W)		2,910+	-	-	7.8	.4	D54569
Do.	do.	T	1-1/4-inch by 0		2,890	2,910+	-	11.5	.4	D54570

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Wadge No. 1	Wolf Creek	M		1	2,860	2,910	2,960	5.9	.5	A2484
Wadge No. 2	Wadge	M		3	2,600	2,660	2,670 (2)	6.1	.6	A2485 to A2487
Do.	do.	M		1	2,400	2,490	2,710	4.8	.5	A34977
Webber	do.	M		1	2,660	2,740	2,800	5.7	.5	A12504
Oak Creek										
Apex	do.	M		1	2,570	2,650	2,750	6.2	.7	B34464
Do.	Pinnacle	T	3-inch lump		2,520	2,580	2,730	4.3	.5	C43758
Do.	do.	T	3- by 1-1/4-inch		2,520	2,620	2,730	6.4	.7	C43759
Do.	do.	T	1-1/4-inch by 0		2,540	2,620	2,780	9.0	.5	C43760
Argo	do.	M		1	2,140	2,220	2,260	4.3	.6	A13682
Arrowhead	do.	T	3-inch lump		2,350	2,450	2,610	8.0	.4	E27108
Do.	do.	T	3- by 1-1/4-inch (W)		2,420	2,460	2,540	7.9	.5	E27109
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,420	2,460	2,540	7.8	.6	E27110
Do.	do.	T	1-1/4- by 1/4-inch		2,650	2,770	2,880	14.1	.6	E27111
Do.	do.	T	1/4-inch by 0		2,420	2,600	2,710	10.5	.5	E27112
Arthur	-	M		1	2,440	2,550	2,640	8.9	.7	A34345
Blue Spruce	No. 3	T	Run-of-mine		2,420	2,570	2,690	7.7	.7	C78026
Brazil Hastings	Pinnacle	M		1	2,200	2,320	2,540	6.7	.8	94621
Edna	Wadge	T	3-inch lump		2,780	2,890	2,910+	7.1	.7	C77517
Do.	do.	T	3- by 1-1/4-inch		2,910	2,910+	-	8.3	.6	C77518
Do.	do.	T	1-1/4- by 1/2-inch		2,880	2,910+	-	10.0	.6	C77519
Do.	do.	T	1/2-inch by 0		2,820	2,890	2,910+	13.2	.7	C77520
Edna (Strip)	Lennox	T	8-inch lump		2,010	2,180	2,400	4.0	1.5	E63729
Do.	do.	T	3- by 2-inch		2,020	2,090	2,250	4.4	1.2	E63730
Do.	do.	T	1-1/4- by 1/4-inch		2,000	2,100	2,360	4.4	1.1	E63731
Do.	do.	T	1/4-inch by 0		2,020	2,120	2,400	6.5	1.2	E63732
Greenhalgh (Prospect)	Wadge	M		1	2,470	2,520	2,730	6.4	.5	C73282
Gwynn	Pinnacle	M		1	2,130	2,380	2,450	4.5	.8	A2699
Middle Creek	Wolf Creek	T	4-inch lump		2,850	2,890	2,910+	9.2	.5	C77167
Do.	do.	T	4- by 1-1/2-inch		2,850	2,900	2,910+	10.0	.5	C77168
Do.	do.	T	1-1/2-inch by 0		2,800	2,840	2,890	10.2	.5	C77169
Moffat No. 2	Pinnacle	T	3-inch lump		2,280	2,380	2,820	3.8	.4	B76248
Do.	do.	T	3- by 1-1/4-inch (W)		2,340	2,440	2,830	5.5	.6	B76249
Do.	do.	T	1-1/4- by 3/8-inch		2,260	2,360	2,760	8.9	.7	B76250
Do.	do.	T	1-1/4-inch by 0		2,290	2,380	2,820	7.5	.7	B76251
Moffat No. 3	do.	T	3-inch lump		2,520	2,620	2,730	6.0	.6	C77172
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	16.5	.6	C77173
Do.	do.	T	3- by 1-1/4-inch (W)		2,710	2,800	2,850	8.0	.6	C77174
Do.	do.	T	1-1/4- by 5/8-inch		2,730	2,780	2,830	12.8	.8	C77175
Do.	do.	T	1-1/4-inch by 0		2,690	2,730	2,800	12.9	.7	C77176
Do.	do.	T	5/8-inch by 0		2,620	2,660	2,730	9.2	.6	C77177
Moffat "B" (Strip)	Lennox	T	8-inch lump		2,380	2,430	2,590	3.5	.7	E63104
Do.	do.	T	8- by 3-inch		2,240	2,350	2,560	4.8	.7	E63105
Do.	do.	T	3- by 1-1/4-inch		2,240	2,350	2,570	4.5	.8	E63106
Do.	do.	T	1-1/4- by 1/4-inch		2,220	2,350	2,570	5.1	.7	E63107
Do.	do.	T	1/4-inch by 0		2,060	2,160	2,510	6.4	.8	E63108
Nicholas Stein	No. 3	M		1	2,460	2,510	2,610	6.0	.5	A23374
Pinnacle	Pinnacle	T	3-inch lump		2,180	2,220	2,440	4.8	.8	C41767
Do.	do.	T	3- by 1-1/4-inch (W)		2,160	2,220	2,440	5.0	.8	C41768
Do.	do.	T	1-1/4-inch by 0		2,220	2,440	2,640	8.7	.9	C41769
Do.	No. 4	T	Run-of-mine		2,440	2,530	2,700	6.1	.8	C41770
Pinnacle No. 1	Pinnacle	M		1	2,080	2,170	2,380	2.9	.6	A34979
Do.	do.	M		3	2,210 (2)	2,800+(1) 2,280 (2)	2,420 (2)	6.0	1.0	A13684 to A13686
Pinnacle No. 2	do.	M		2	2,120	2,200	2,310	4.0	.7	A13683 and A13687
(Prospect)	Wadge	M		1	2,420	2,600	2,780	7.1	.6	D74290
Pagoda										
Sun	Pinnacle	T	Run-of-mine		2,380	2,540	2,730	5.2	.5	C77574
Webber	-	M		1	2,250	2,280	2,690	4.1	.6	B34465
Phippsburg										
Seven Point	Pinnacle	M		2	2,200	2,320	2,520	5.3	.7	B17623 and B17624

1/ M, mine sample; T, tipple sample 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
COLORADO (Con.)										
Routt County (Con.)										
Phippsburg										
Seven Point	-	T	1-1/2-inch by 0		2,140	2,190	2,470	11.5	.5	C45178
Seven Point (Strip)	Pinnacle	T	Run-of-mine		2,220	2,450	2,560	4.6	.6	E28000
Routt										
Keystone	do.	T	3-inch lump		2,390	2,530	2,720	7.6	.6	E63109
Do.	do.	T	3- by 1-1/4-inch (W)		2,720	2,780	2,860	8.4	.7	E63110
Do.	do.	T	1-1/4- by 1/4-inch		2,670	2,760	2,890	11.3	.8	E63111
Do.	do.	T	1/4-inch by 0		2,510	2,590	2,770	8.2	.7	E63112
Steamboat Springs										
Block	-	M		1	2,370	2,550	2,700	3.2	.7	A72345
Routt No. 1	-	M		1	2,360	2,430	2,680	4.3	.6	C44018
Weld County										
Dacona										
Baum	-	M		2	2,130	2,260	2,440	4.6	.5	B32992 and B32993
Boulder Valley No. 3	-	M		3	2,000	2,160	2,220	5.0	.5	C65910 to C65912
Do.	-	T	4-inch lump		2,130	2,210	2,260	4.9	.3	D58039
Do.	-	T	4-inch by 0		2,030	2,150	2,180	5.4	.3	D58040
Graden	-	M		3	1,950	2,060	2,200	5.7	.4	B22433 to B22435
Do.	Laramie	T	8-inch lump		2,030	2,080	2,530	5.5	.4	B73799
Do.	do.	T	8- by 2-1/2-inch		1,980	2,080	2,230	6.7	.4	B73800
Do.	do.	T	2-1/2-inch by 0		1,970	2,100	2,210	5.7	.2	B73801
Puritan	-	M		4	2,000	2,060	2,130	5.7	.5	A97856 to A97859
Sterling	-	M		4	2,060	2,100	2,190	6.0	.5	A97679 to A97682
Do.	-	T	8-inch lump		1,920	2,100	2,150	5.9	.3	D58041
Do.	-	T	8- by 1-1/2-inch		2,030	2,100	2,230	6.5	.4	D58042
Do.	-	T	1-1/2-inch by 0		1,940	2,050	2,100	7.3	.6	D58043
Eaton										
Comet	Comet	M		1	2,040	2,100	2,170	8.8	1.3	B36132
Erie										
Clayton	-	T	6- by 3-inch		2,000	2,050	2,180	5.8	.4	A96963
Do.	-	M		1	1,970	2,030	2,360	6.5	.4	B34789
Eagle	-	M		1	2,120	2,200	2,260	4.7	.3	B52846
Do.	-	T	8- by 4-inch		2,070	2,120	2,160	5.1	.2	E9610
Do.	-	T	2-1/2- by 1-1/2-inch		2,020	2,080	2,120	5.5	.3	E9611
Do.	-	T	1-1/2- by 1/2-inch		2,030	2,080	2,130	5.3	.2	E9612
Do.	-	T	1/2-inch by 0		1,930	2,010	2,090	6.0	.3	E9613
Do.	-	T	3/4-inch by 0		2,000	2,040	2,130	6.0	.4	E9614
Imperial	-	M		4	2,090	2,140	2,290	5.6	.7	A97116 to A97119
Do.	-	T	8- by 2-1/2-inch		2,020	2,070	2,130	5.4	.4	E34456
Do.	-	T	2-1/2- by 1-1/2-inch		2,020	2,050	2,130	5.3	.4	E34457
Do.	-	T	1-1/2- by 3/4-inch		2,100	2,150	2,440	8.9	.4	E34458
Do.	-	T	3/4-inch by 0		1,960	2,010	2,090	6.3	.4	E34459
Lincoln	-	M		3	2,000	2,050	2,110	6.2	.4	D58397 to D58399
Do.	-	T	2-1/2- by 1-1/2-inch		2,000	2,030	2,210	6.8	.4	E34626
Do.	-	T	2-1/2-inch by 0		2,030	2,080	2,190	8.0	.5	E34627

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Morrison	-	T	2-1/2-inch by 0		2,020	2,090	2,230	7.3	.5	A97132
Do.	-	M		4	2,030	2,100	2,300	6.9	.4	A97133 to A97136
State	-	M		5	2,010	2,090	2,210	4.8	.3	A96873 to A96877
Do.	-	T	8-inch lump		2,000	2,150	2,380	4.6	.4	B73405
Do.	-	T	8- by 2-1/2-inch		2,080	2,110	2,420	5.3	.3	B73406
Do.	-	T	2-1/2-inch by 0		2,020	2,050	2,380	5.2	.4	B73407
Do.	-	T	1-1/2-inch by 0		2,000	2,050	2,400	5.2	.4	B73408
Washington	-	M		4	2,020	2,130	2,210	5.0	.4	B54448 to B54451
Do.	Lower Laramie	T	8-inch lump		2,080	2,150	2,180	4.9	.4	D57783
Do.	do.	T	8- by 2-1/2-inch		2,100	2,130	2,150	4.9	.3	D57784
Do.	do.	T	2-1/2-inch by 0		2,050	2,100	2,130	6.0	.4	D57785
Fort Lupton										
Witherbee	-	M		2	2,050	2,110	2,390	8.0	.5	A97516 and A97517
Frederick										
Erie	-	T	8- by 2-1/2-inch		2,210	2,260	2,470	6.5	.4	D58035
Do.	-	T	2-1/2- by 1-1/2-inch		2,210	2,260	2,470	6.8	.4	D58036
Do.	-	T	1-1/2- by 3/4-inch		2,210	2,260	2,470	6.3	.5	D58037
Do.	-	T	Run-of-mine		2,180	2,210	2,310	7.1	.5	D58038
Evans	Lafayette	M		3	2,050	2,150	2,210	5.5	.5	82721 to 82723
Grant	-	T	4-inch lump		2,180	2,200	2,380	5.7	.6	A86362
Do.	-	T	1-1/2-inch by 0		2,140	2,170	2,270	7.1	.8	A86363
Russell	-	M		3	2,230	2,330	2,470	6.5	.7	A97311 to A97313
Do.	Lower Laramie	T	2-1/2-inch lump		2,130	2,210	2,580	6.4	.6	B73722
Do.	do.	T	1-1/4- by 3/4-inch		1,960	2,040	2,490	8.1	.8	B73723
Do.	do.	T	2-1/2-inch by 0		1,960	2,040	2,500	8.1	.8	B73724
Shamrock	-	M		2	2,020	2,090	2,290	6.0	.7	A96894 and A96895
Do.	Laramie	T	8-inch lump		2,090	2,180	2,240	4.8	.5	B74134
Do.	do.	T	8- by 2-1/2-inch		2,080	2,170	2,240	4.9	.4	B74135
Do.	do.	T	2-1/2-inch by 0		2,030	2,080	2,160	6.2	.6	B74136
Lafayette (Boulder County)										
Base-Line	-	T	8-inch lump		2,010	2,090	2,210	4.5	.4	B73337
Do.	-	T	8- by 2-1/2-inch		2,010	2,080	2,370	4.5	.3	B73338
Do.	-	T	2-1/2- by 1-1/2-inch		2,100	2,160	2,390	5.0	.4	B73339
Do.	-	T	1-1/2-inch by 0		2,180	2,210	2,740	5.2	.4	B73340
Monroe	-	T	2-1/2-inch by 0		2,110	2,160	2,410	8.7	.5	A96395
Do.	-	M		2	2,100	2,190	2,290	5.1	.5	A96396 and A96397
Standard	-	M		2	2,010	2,060	2,320	6.6	.6	A97513 and A97514
La Salle										
Bohlender	-	M		5	2,040	2,120	2,190	6.9	.5	B30562 to B30566
Buddy	-	M		2	2,160	2,230	2,510	8.9	.6	B96617 and B96618
Sunset	-	M		2	2,040	2,090	2,330	8.7	.6	A96626 and A96627
Serene										
Columbine	-	T	1-1/4-inch by 0		2,040	2,140	2,510	8.0	.4	A84715
Do.	-	T	6-inch lump		1,980	2,040	2,310	5.8	.3	A85010
Do.	-	T	2-1/2- by 1-1/4-inch		1,990	2,050	2,330	6.9	.3	A85011
Do.	-	M		1	2,080	2,150	2,240	4.5	.4	B14958
GEORGIA										
Dade County										
Durham (Walker County)										
Outcrop	No. 5	M		1	2,300	2,470	2,750	4.0	.9	B42736
Do.	"A"	M		1	2,700	2,850	2,910+	17.6	1.7	B42737
Whiteside (Tennessee)										
Ferndale	Rattlesnake	M		1	2,690	2,750	2,850	9.8	.9	B43047
Green	-	M		1	1,990	2,170	2,540	6.2	1.4	B43049
Old Dade	-	M		1	2,820	2,890	2,910+	13.8	.4	B43048
Old Pat O'Brien	Etna	M		1	2,000	2,280	2,590	5.5	1.0	B42853
Pit D-3	-	M		1	2,830	2,880	2,910+	13.2	.6	B43051

1/ M, mine sample; T, tipple sample 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
GEORGIA (Con.)										
Dade County (Con.)										
Whiteside (Tennessee)										
Tatum Gulch	Dade	M		1	2,840	2,890	2,910+	14.0	.9	B43050
Test Pit	-	M		1	1,900	2,030	2,380	5.0	1.6	B42854
Walker County										
Durham										
Durham	No. 4	M		3	2,160	2,390	2,670	3.7	.7	B42726 to B42728
Durham Upper Bench	No. 5	M		1	1,840	2,190	2,610	4.8	1.5	B42730
Durham Lower Bench	do.	M		1	2,790	2,840	2,910+	9.8	.8	B42731
Do.	No. 4	T	Run-of-mine		2,260	2,510	2,770	10.0	.8	B42733
Do.	No. 5	T	do.		2,270	2,550	2,720	6.6	1.0	B42732
Durham "A"	do.	T	2-inch lump		2,100	2,300	2,430	17.9	4.0	C33757
Do.	do.	T	2-inch by 0		2,430	2,610	2,780	23.3	2.5	C33758
Outcrop	No. 4	M		1	2,460	2,600	2,850	10.9	1.2	B42734
Lula Lake										
Test Pit	(S.E. side of Look Out Mountain)	M		1	2,510	2,690	2,910+	22.9	1.2	B42735
Pittsburg										
Cant Hardly (Lower Bench)	Double	M		2	2,450	2,610	2,910+(1) 2,810 (1)	4.9	.6	C9837 and C9838
"A"	"A"	M		1	2,150	2,380	2,570	12.5	2.8	C9839
IDAHO										
Teton County										
Driggs										
Samuels	Blacksmith	T	2-inch lump		1,990	2,090	2,360	4.7	1.6	C46978
Do.	do.	T	2- by 1-1/4-inch		2,210	2,470	2,590	9.9	1.8	C46979
Do.	do.	T	1-1/4-inch by 0		2,190	2,470	2,590	8.8	1.7	C46980
Sam										
Idaho Coal Mining Co.	-	M		2	2,380	2,440	2,530	5.3	.8	A46205 and A46206
Tetonia										
Black Diamond No. 3	-	T	2-inch lump		2,050	2,090	2,230	5.1	.9	B82392
Do.	-	T	2-inch by 0		2,030	2,090	2,310	6.0	.8	B82393
Do.	No. 3	M		1	2,030	2,080	2,270	5.4	.8	C46381
ILLINOIS										
Bond County										
Pocahontas										
Pocahontas No. 1	No. 6	M		3	1,870	2,080	2,200	12.1	3.8	80788 to 80790
Bureau County										
Cherry										
Cherry	No. 7	M		2	2,020	2,100	2,390	16.8	4.1	A86596 and A86597

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Spring Valley										
Spring Valley No. 3	No. 2	T	6-inch lump		1,920	1,980	2,030	11.1	4.4	B35362
Do.	do.	T	6- by 3-inch		1,940	1,980	2,030	11.3	4.0	B35363
Do.	do.	T	3- by 1-1/2-inch		1,930	1,990	2,130	12.3	4.5	B35364
Do.	do.	T	1-1/2-inch by 0		1,970	2,010	2,220	18.9	4.0	B35365
Do.	do.	T	1-1/2- by 1/4-inch		1,980	2,000	2,150	16.2	4.1	B35366
Christian County										
Kincaid										
Hawthorne No. 7	No. 6	T	6-inch lump		1,940	2,000	2,300	12.0	5.2	B36652
Do.	do.	T	6- by 3-inch		1,950	1,990	2,260	11.6	4.9	B36653
Do.	do.	T	3- by 2-inch		1,920	1,990	2,310	14.3	5.7	B36654
Do.	do.	T	2-inch by 0		1,960	2,000	2,340	16.3	5.1	B36655
Do.	do.	T	1-1/4-inch by 0		1,980	2,020	2,370	18.4	5.4	B36656
Hawthorne No. 8	do.	T	6- by 3-inch		1,940	1,990	2,140	15.0	5.4	B65124
Pana										
Pana No. 1	do.	M		3	1,810	1,870	1,900	12.0	4.8	81138 to 81140
Do.	do.	T	6-inch lump		1,910	2,000	2,340	13.1	5.7	B36570
Do.	do.	T	6-inch by 0		2,020	2,090	2,470	15.8	5.2	B36571
Pana No. 2	do.	M		3	1,830	1,940	2,070	10.4	4.2	81142 to 81144
Peabody No. 17	do.	T	7- by 4-inch (W)		1,890	1,980	2,210	11.2	4.3	E59987
Do.	do.	T	4- by 2-inch (W)		1,910	1,970	2,180	11.2	4.2	E59988
Do.	do.	T	2- by 1-1/4-inch (W)		1,940	2,030	2,260	10.4	4.0	E59989
Do.	do.	T	1-1/4-inch by 0		1,930	2,000	2,160	16.1	4.4	E59990
Penwell	do.	T	6-inch lump		1,920	1,960	2,130	11.2	5.0	B36530
Do.	do.	T	6- by 3-1/2-inch		1,950	1,980	2,360	11.5	4.7	B36531
Do.	do.	T	3-1/2- by 2-1/2-inch		1,960	2,000	2,270	11.5	4.7	B36532
Do.	do.	T	2-1/2- by 1-1/2-inch		1,960	2,000	2,380	13.4	4.9	B36533
Do.	do.	T	1-1/2-inch by 0		1,980	2,030	2,440	16.3	4.5	B36534
Pawnee (Sangamon County)										
Peabody No. 10	do.	T	8- by 4-inch (W)		1,870	1,960	2,140	13.8	5.1	E59982
Do.	do.	T	do.		1,930	1,970	2,080	11.8	5.3	E59983
Do.	do.	T	4- by 1-1/4-inch (W)		1,960	2,010	2,180	12.8	4.7	E59984
Do.	do.	T	4- by 1-1/4-inch (W)		1,950	2,010	2,170	11.1	4.4	E59985
Do.	do.	T	1-1/4-inch by 0		1,970	2,020	2,260	14.7	4.8	E59986
Taylorville										
Hawthorne No. 9	do.	M		3	1,830	1,930	2,080	12.5	4.4	81315 to 81317
Do.	do.	T	6-inch lump		1,930	1,980	2,190	11.9	4.7	B36477
Do.	do.	T	6- by 4-inch		1,950	1,990	2,310	11.4	4.5	B36478
Do.	do.	T	4- by 1-1/4-inch		1,950	1,980	2,140	13.8	5.4	B36479
Do.	do.	T	1-1/4-inch by 0		1,900	1,960	2,140	16.8	5.0	B36480
Do.	do.	T	2-inch by 0		1,890	1,970	2,160	16.4	5.1	B36481
Hawthorne No. 58	do.	T	6-inch lump		1,960	2,000	2,400	10.7	4.5	B36708
Do.	do.	T	6- by 4-inch		1,980	2,020	2,410	10.1	4.2	B36709
Do.	do.	T	4- by 2-inch		1,980	2,020	2,350	10.9	4.3	B36710
Do.	do.	T	1-1/4-inch by 0		1,910	1,990	2,210	15.6	4.7	B36711
Do.	do.	T	2-inch by 0		1,950	2,010	2,300	13.1	4.6	B36712
Tovey										
Hawthorne No. 8	do.	M		3	1,730	1,850	1,960	12.0	4.6	81444 to 81446
Do.	do.	T	6-inch lump		1,960	2,000	2,210	12.1	4.9	B36610
Do.	do.	T	6- by 3-inch		1,980	2,000	2,120	14.1	5.1	B36611
Do.	do.	T	3- by 1-1/4-inch		1,970	1,990	2,190	16.1	5.7	B36612
Do.	do.	T	1-1/4-inch by 0		1,900	1,940	2,120	16.4	5.3	B36613
Do.	do.	T	2-inch by 0		1,920	1,990	2,260	15.9	5.0	B36614
Clinton County										
Beckemeyer										
Beckemeyer	do.	T	6-inch lump		2,000	2,030	2,390	12.7	4.2	B44983
Do.	do.	T	6- by 3-inch		2,000	2,050	2,420	14.4	4.3	B44984
Do.	do.	T	3- by 1-1/2-inch		1,990	2,030	2,420	13.7	3.9	B44985

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Clinton County (Con.)										
Beckemeyer										
Beckemeyer	No. 6	T	1-1/2-inch by 0		1,900	1,950	2,330	14.2	4.3	B44986
Breese										
East	do.	M		3	1,960	2,110	2,290	12.2	4.0	80744 to 80746
Do.	do.	T	6-inch lump		1,980	2,020	2,390	12.0	4.6	B44650
Do.	do.	T	6- by 1-1/2-inch		1,990	2,050	2,400	14.5	4.6	B44651
Do.	do.	T	1-1/2-inch by 0		1,940	2,020	2,370	14.2	4.1	B44652
North	do.	M		3	1,930	2,050	2,380	12.0	4.0	80767 to 80769
Do.	do.	T	6-inch lump		1,920	1,990	2,110	10.4	4.1	E28383
Do.	do.	T	6- by 2-1/2-inch		1,910	2,000	2,210	11.6	3.8	E28384
Do.	do.	T	3/4- by 1/8-inch		1,960	2,010	2,290	15.9	4.7	E28385
Do.	do.	T	1-1/2-inch by 0		1,950	2,050	2,330	15.8	4.1	E28386
Douglas County										
Murdock										
Murdock	No. 7	T	6- by 3-inch (W)		2,010	2,120	2,370	6.3	2.2	E30485
Do.	do.	T	3- by 1-1/2-inch (W)		1,970	2,120	2,390	7.0	2.4	E30486
Do.	do.	T	1-1/2-inch by 0 (W)		2,020	2,120	2,370	8.0	2.4	E30487
Do.	do.	T	3/16-inch by 0		1,960	2,030	2,340	10.6	2.9	E30488
Franklin County										
Benton										
Franklin	No. 6	T	6-inch lump		2,500	2,610	2,740	12.3	.9	A50225
Do.	do.	T	6- by 3-inch		2,060	2,180	2,380	10.0	1.9	A50204
Do.	do.	T	3- by 2-inch		2,060	2,210	2,340	9.0	1.9	A50226
Do.	do.	T	2- by 1-1/4-inch		2,090	2,220	2,370	10.0	1.9	A50227
Do.	do.	T	1-1/4-inch by 0		2,050	2,160	2,300	11.7	2.0	A50291
Buckner										
Old Ben No. 14	do.	T	6-1/2-inch lump		2,100	2,210	2,610	9.3	1.3	B38925
Do.	do.	T	6-1/2- by 3-1/2-inch (W)		2,080	2,380	2,590	7.8	1.3	B38926
Do.	do.	T	3-1/2- by 2-inch (W)		2,120	2,360	2,570	8.1	1.1	B38927
Do.	do.	T	2- by 1-1/2-inch		2,250	2,480	2,640	11.3	1.2	B38928
Do.	do.	T	1-1/2-inch by 10-mesh		2,110	2,230	2,470	10.8	1.2	B38929
Do.	do.	T	6-inch lump		2,140	2,320	2,600	7.5	1.4	E57134
Do.	do.	T	6- by 3-inch (W)		2,050	2,190	2,550	10.7	1.5	E57135
Do.	do.	T	3- by 2-inch (W)		2,090	2,180	2,570	7.4	1.3	E57136
Do.	do.	T	2- by 1-1/2-inch		2,180	2,430	2,620	10.5	1.3	E57137
Do.	do.	T	1-1/2- by 3/4-inch		2,140	2,370	2,620	12.9	1.4	E57138
Do.	do.	T	3/4- by 3/8-inch		2,090	2,190	2,460	8.4	1.2	E57139
Do.	do.	T	3/8-inch by 10-mesh		2,040	2,140	2,440	10.7	1.3	E57140
Do.	do.	T	10-mesh by 0		2,050	2,150	2,380	18.5	1.5	E57141
Coella										
Old Ben No. 11	do.	T	6-inch lump		2,430	2,540	2,680	8.5	1.1	C48917
Do.	do.	T	6- by 3-inch (W)		2,490	2,550	2,690	8.3	1.1	C48918
Do.	do.	T	3- by 2-inch (W)		2,490	2,550	2,690	7.5	1.1	C48919
Do.	do.	T	2- by 1-1/2-inch (W)		2,480	2,550	2,730	8.0	1.0	C48920

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Do.	do.	T	1-1/2- by 5/16-inch		2,190	2,270	2,570	9.2	1.0	C48921
Do.	do.	T	5/16-inch by 0		2,130	2,200	2,400	12.3	1.1	C48922
Freeman Spur (Williamson Co.)										
Energy No. 5	do.	T	6-inch lump		2,140	2,220	2,440	10.4	1.0	C32789
Do.	do.	T	6- by 3-inch		2,270	2,330	2,540	8.9	.9	C32790
Do.	do.	T	3- by 2-inch		2,330	2,460	2,660	11.3	.7	C32791
Do.	do.	T	2- by 1-1/2-inch		2,290	2,360	2,580	10.1	.7	C32792
Do.	do.	T	1-1/2-inch by 0		2,290	2,380	2,590	9.7	.8	C32793
Orient										
Orient No. 1	do.	M		5	2,280	2,380	2,550	9.1	.9	A66441 to A66445
Do.	do.	T	6-inch lump		2,180	2,420	2,570	6.7	.8	D30843
Do.	do.	T	6- by 3-inch (W)		2,180	2,210	2,500	7.3	.9	D30844
Do.	do.	T	3- by 2-inch (W)		2,260	2,420	2,520	7.6	.7	D30845
Do.	do.	T	2- by 1-1/2-inch (W)		2,180	2,310	2,460	7.4	.7	D30846
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,180	2,260	2,500	7.7	.9	D30847
Do.	do.	T	5/8- by 7/16-inch (W)		2,150	2,210	2,500	7.8	.8	D30848
Do.	do.	T	10- by 48-mesh		2,180	2,230	2,420	7.4	.7	D30849
Do.	do.	T	do.		2,150	2,260	2,420	15.3	.9	D30850
Do.	do.	T	48-mesh by 0		2,180	2,260	2,420	15.8	.9	D30851
Royalton										
Lida B No. 15	do.	T	Run-of-mine		1,970	2,030	2,340	20.4	4.0	D40893
Lida B No. 18	do.	T	do.		2,150	2,210	2,490	13.0	1.8	D49159
Royalton No. 7	do.	T	6- by 3-inch (W)		2,520	2,590	2,760	9.1	1.0	D31508
Do.	do.	T	3- by 1-inch (W)		2,380	2,450	2,650	9.9	1.0	D31509
Do.	do.	T	1- by 1/8-inch (W)		2,260	2,380	2,440	9.7	.9	D31510
Do.	do.	T	1/2- by 1/8-inch		2,210	2,280	2,450	9.2	1.0	D31511
Do.	do.	T	1/8-inch by 0		2,230	2,280	2,570	16.1	1.1	D31512
Royalton No. 15	do.	T	6- by 3-inch		1,940	2,100	2,310	10.4	2.8	D64871
Do.	do.	T	3- by 2-inch		2,050	2,190	2,420	9.5	2.3	D64872
Do.	do.	T	1-1/2- by 1-inch		2,000	2,230	2,420	9.2	1.9	D64873
Do.	do.	T	1-inch by 8-mesh		2,050	2,260	2,520	9.4	2.3	D64874
Do.	do.	T	1-1/2-inch by 28-mesh		2,050	2,260	2,520	9.2	2.1	D64875
Do.	do.	T	2-inch by 0		2,050	2,130	2,290	16.3	3.2	D64876
Do.	do.	T	1/2-inch by 8-mesh		2,050	2,230	2,420	10.0	2.2	D64877
Do.	do.	T	3/16-inch by 8-mesh		2,130	2,180	2,310	15.8	2.6	D64878
Do.	do.	T	8-mesh by 0		2,040	2,150	2,290	21.4	3.3	D64879
Sesser										
Southern Gem No. 2	do.	M		1	2,080	2,410	2,510	9.7	1.0	92190
Valier										
Old Ben No. 22	do.	T	6- by 3-inch (W)		2,130	2,220	2,540	8.6	1.7	E57142
Do.	do.	T	3- by 2-inch (W)		2,130	2,200	2,500	7.8	1.7	E57143
Do.	do.	T	2- by 1-1/2-inch (W)		2,080	2,190	2,540	7.6	1.8	E57144
Do.	do.	T	1-1/2- by 1-inch (W)		2,080	2,200	2,570	7.6	1.8	E57145
Do.	do.	T	1- by 5/16-inch (W)		2,090	2,210	2,500	7.4	1.8	E57146
Do.	do.	T	5/16-inch by 10-mesh (W)		2,040	2,090	2,450	7.5	1.9	E57147
Do.	do.	T	10- by 28-mesh (W)		2,010	2,070	2,390	7.4	1.8	E57148
Valier	do.	M		3	2,240	2,350	2,540	9.5	1.0	A90715 to A90717
Valier No. 1	do.	M		1	2,130	2,150	2,240	8.7	1.3	A1991
West Frankfort										
Black Arrow No. 18	do.	M		3	2,030	2,130	2,360	11.1	2.5	A39228 to A39230
Do.	do.	T	6-1/2-inch lump		2,240	2,370	2,680	12.3	2.2	C32394
Do.	do.	T	6-1/2- by 3-inch		2,070	2,130	2,430	9.6	2.4	C32395
Do.	do.	T	3- by 2-inch		2,090	2,170	2,470	9.8	2.7	C32396
Do.	do.	T	2- by 1-1/2-inch		2,050	2,130	2,360	10.5	2.7	C32397
Do.	do.	T	1-1/2- by 5/16-inch		2,040	2,140	2,370	8.9	2.2	C32398
Do.	do.	T	5/16-inch by 0		2,020	2,090	2,310	7.6	2.3	C32399
New Orient No. 6	do.	T	6-inch lump		2,520	2,580	2,660	10.4	1.3	C49450
Do.	do.	T	6- by 3-inch		2,070	2,210	2,460	10.6	1.9	C49451
Do.	do.	T	3- by 2-inch		2,270	2,570	2,780	8.3	1.2	C49452
Do.	do.	T	1-1/2- by 1-inch		2,130	2,360	2,570	9.1	1.5	C49453
Do.	do.	T	1- by 3/8-inch		2,150	2,240	2,470	8.9	1.3	C49454

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Franklin County (Con.)										
West Frankfort										
New Orient No. 6	No. 6	T	3/8-inch by 0		2,110	2,180	2,240	10.2	1.6	C49455
Old Ben No. 8	do.	T	6-inch lump		2,160	2,360	2,670	9.5	1.3	C49184
Do.	do.	T	6- by 3-inch (W)		2,450	2,510	2,720	8.2	1.1	C49185
Do.	do.	T	3-inch by 0		2,150	2,230	2,660	11.3	1.2	C49186
Old Ben No. 9	do.	T	6-inch lump		2,100	2,150	2,500	10.0	1.6	D41447
Do.	do.	T	6- by 3-inch (W)		2,470	2,520	2,650	8.9	1.2	D41448
Do.	do.	T	3- by 2-inch (W)		2,340	2,480	2,630	7.6	1.3	D41449
Do.	do.	T	2- by 1-1/2-inch (W)		2,210	2,440	2,620	7.6	1.3	D41457
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,130	2,360	2,590	7.5	1.4	D41450
Do.	do.	T	3/4- by 3/8-inch (W)		2,260	2,470	2,600	7.9	1.3	D41451
Do.	do.	T	3/8-inch by 0		2,130	2,210	2,490	15.1	1.5	D41455
Old Ben No. 15	do.	T	6-inch lump		2,510	2,620	2,740	8.5	.8	C49079
Do.	do.	T	6- by 3-inch (W)		2,360	2,490	2,800	8.6	.7	C49080
Do.	do.	T	3- by 2-inch (W)		2,440	2,540	2,700	7.7	1.1	C49081
Do.	do.	T	2- by 1-1/2-inch (W)		2,440	2,520	2,680	7.8	.8	C49082
Do.	do.	T	1-inch by 28-mesh (W)		2,260	2,360	2,570	6.9	.8	C49083
Do.	do.	T	28-mesh by 0		2,150	2,250	2,520	12.4	.8	C49084
Orient No. 2	do.	M		1	2,070	2,110	2,430	7.7	1.5	B26213
Do.	do.	T	6-inch lump		2,230	2,500	2,650	10.2	1.5	E57149
Do.	do.	T	6- by 3-inch (W)		2,460	2,560	2,700	9.2	1.2	E57150
Do.	do.	T	3- by 2-inch (W)		2,070	2,460	2,600	8.8	1.4	E57151
Do.	do.	T	2- by 1-1/2-inch (W)		2,120	2,470	2,650	9.2	1.3	E57152
Do.	do.	T	1-1/2- by 1-inch (W)		2,100	2,500	2,610	8.8	1.3	E57153
Do.	do.	T	1- by 7/16-inch (W)		2,060	2,370	2,520	9.1	1.3	E57154
Do.	do.	T	7/16-inch by 10-mesh		2,070	2,150	2,540	9.0	1.3	E57155
Do.	do.	T	10- by 48-mesh		2,080	2,180	2,500	15.1	1.3	E57156
Do.	do.	T	48-mesh by 0		2,060	2,110	2,460	16.9	1.2	E57157
Zeigler										
Zeigler No. 1	do.	T	6-inch lump		2,660	2,730	2,910+	6.8	.6	C49382
Do.	do.	T	6- by 3-inch (W)		2,620	2,710	2,890	8.7	.6	C49383
Do.	do.	T	3- by 2-inch (W)		2,620	2,700	2,860	7.4	.7	C49384
Do.	do.	T	2- by 1-1/2-inch (W)		2,620	2,680	2,860	7.3	.6	C49385
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,570	2,650	2,840	8.0	.7	C49386
Do.	do.	T	3/4- by 5/16-inch (W)		2,520	2,590	2,840	6.2	.6	C49387
Do.	do.	T	5/16-inch by 10-mesh		2,330	2,410	2,780	7.7	.6	C49388
Do.	do.	T	10-mesh by 0		2,230	2,360	2,620	12.3	.6	C49389
Zeigler No. 2	do.	T	6-inch lump		2,330	2,430	2,700	8.6	.9	B94803
Do.	do.	T	6- by 3-inch (W)		2,490	2,570	2,770	8.7	.8	B94804
Do.	do.	T	3- by 2-inch (W)		2,410	2,510	2,750	8.6	.8	B94805
Do.	do.	T	2- by 1-1/2-inch (W)		2,490	2,550	2,840	8.3	.8	B94806
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,380	2,510	2,840	7.0	.8	B94807
Do.	do.	T	3/4- by 5/16-inch (W)		2,270	2,380	2,760	6.2	.9	B94808
Do.	do.	T	5/16-inch by 10-mesh		2,200	2,270	2,560	10.0	.9	B94809
Do.	do.	T	10-mesh by 0		2,110	2,210	2,510	14.1	1.0	B94810
Zeigler No. 3	do.	T	6-inch lump		2,130	2,420	2,620	9.5	1.6	D65232
Do.	do.	T	6- by 3-inch (W)		2,100	2,400	2,550	8.6	1.4	D65233

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Do.	do.	T	3- by 2-inch (W)		2,180	2,520	2,680	8.2	1.3	D65234
Do.	do.	T	2- by 1-1/2-inch (W)		2,080	2,520	2,680	8.2	1.3	D65235
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,230	2,470	2,620	7.5	1.3	D65236
Do.	do.	T	3/4- by 5/16-inch (W)		1,970	2,210	2,420	6.7	1.4	D65237
Do.	do.	T	5/16-inch by 10-mesh		2,210	2,260	2,490	9.0	1.4	D65238
Do.	do.	T	10-mesh by 0		1,940	2,150	2,440	14.5	1.7	D65239
Do.	do.	T	3/4-inch by 10-mesh (W)		2,070	2,220	2,420	7.6	1.3	D65240
Fulton County										
Astoria										
Eclipse	No. 5	M		3	1,780	1,870	1,940	13.3	4.4	84446 to 84448
Kay	do.	T	7- by 4-inch (W)		1,920	1,940	2,120	12.5	4.2	E35871
Do.	do.	T	4- by 1-inch (W)		1,960	2,000	2,120	11.0	3.9	E35873
Do.	do.	T	1-inch by 28-mesh (W)		1,920	1,980	2,200	11.5	3.6	E35876
Canton										
Blakley	do.	T	5-inch lump		1,930	1,980	2,260	15.4	3.9	B35003
Do.	do.	T	5- by 1-1/4-inch		1,950	2,000	2,330	15.0	3.7	B35004
Do.	do.	T	1-1/4-inch by 0		1,980	2,020	2,300	17.3	3.4	B35005
Do.	do.	T	1-1/4- by 5/16-inch		1,970	2,010	2,300	14.9	3.2	B35006
Buckheart No. 17	do.	T	6- by 3-inch (W)		1,960	2,020	2,130	12.6	3.8	E61198
Do.	do.	T	3- by 1-1/4-inch (W)		1,930	2,000	2,310	11.7	3.7	E61199
Do.	do.	T	1-1/4- by 1/4-inch (W)		1,970	2,050	2,380	10.1	3.1	E61200
Do.	do.	T	1/4-inch by 48-mesh (W)		1,930	2,000	2,310	11.1	3.1	E61201
Canton Coal Co. No. 1	do.	M		3	1,990	2,040	2,220	14.8	3.0	A88220 to A88222
Kildee No. 3	do.	T	9- by 4-inch		1,820	1,980	2,050	12.7	4.4	E61890
Do.	do.	T	4- by 2-inch		1,920	1,990	2,050	13.8	4.0	E61891
Do.	do.	T	2-inch by 0		1,950	2,000	2,110	15.6	3.2	E61892
Do.	do.	T	1- by 3/16-inch		1,930	2,010	2,110	14.9	3.4	E61893
Do.	do.	T	3/16-inch by 0		2,010	2,090	2,230	17.8	3.0	E61894
Cuba										
Cuba No. 9	do.	T	5-inch lump		1,950	2,000	2,220	11.4	3.7	C33360
Do.	do.	T	5- by 2-inch		1,930	1,960	2,220	12.8	3.6	C33361
Do.	do.	T	2- by 1-1/4-inch		1,940	1,980	2,220	13.5	3.5	C33362
Do.	do.	T	1-1/4-inch by 0		1,980	2,030	2,230	15.7	3.3	C33363
Do.	do.	T	8- by 4-inch		1,920	1,970	2,310	18.6	4.5	D40628
Do.	do.	T	4- by 1-1/4-inch (W)		1,920	1,970	2,360	11.1	3.4	D40629
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,940	2,000	2,360	11.2	3.0	D40630
Fairview										
Parrville	do.	M		2	2,010	2,100	2,150	12.7	3.7	84406 and 84407
Flamingo	do.	T	4- by 2-inch (W)		1,970	2,030	2,310	11.0	3.0	D40626
Do.	do.	T	Run-of-mine (W)		1,990	2,050	2,310	10.4	2.9	D40627
Do.	do.	T	6- by 4-inch (W)		1,940	2,020	2,370	9.3	4.1	E61881
Do.	do.	T	4- by 1-1/4-inch (W)		1,940	2,040	2,390	8.8	4.0	E61882
Do.	do.	T	1-1/4-inch by 0 (W)		1,980	2,070	2,400	9.2	4.0	E61883
Farmington										
Nickel Plate	do.	T	5-inch lump		2,050	2,080	2,200	16.9	3.4	B34906
Do.	do.	T	5- by 1-1/2-inch		1,930	2,000	2,180	18.1	3.4	B34907
Do.	do.	T	1-1/2-inch by 0		1,990	2,060	2,170	19.0	3.0	B34908
Fiatt										
Fiatt	do.	T	8- by 4-inch (W)		1,920	1,960	2,230	10.9	3.4	E29188
Do.	do.	T	4- by 2-inch (W)		1,940	2,000	2,230	10.6	3.4	E29189
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,020	2,310	9.6	3.2	E29190
Do.	do.	T	Run-of-mine		1,920	1,960	2,230	10.5	3.4	E29191
Red Ember	do.	T	8- by 4-inch (W)		1,940	2,000	2,150	11.5	3.3	C33196
Do.	do.	T	4- by 2-inch (W)		1,920	1,990	2,160	12.0	3.4	C33197
Do.	do.	T	2- by 1-1/4-inch (W)		1,980	2,020	2,220	10.8	3.3	C33198
Do.	do.	T	1-1/4-inch by 0 (W)		1,940	2,000	2,210	11.9	2.9	C33199
Lewistown										
Bryant	do.	T	4- by 2-inch (W)		1,970	2,010	2,370	11.7	3.2	B80701
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,050	2,520	11.1	3.3	B80702
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,080	2,540	10.5	3.3	B80703

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Fulton County (Con.)										
Middlegrove										
Bright Star	No. 6	T	6-inch lump		2,010	2,070	2,270	6.7	3.6	C33596
Do.	do.	T	6- by 4-inch		2,020	2,140	2,470	10.9	4.2	C33597
Do.	do.	T	4- by 2-inch (W)		2,050	2,140	2,470	8.8	3.3	C33598
Do.	do.	T	2- by 1-1/4-inch (W)		2,050	2,190	2,420	7.3	3.0	C33599
Do.	do.	T	1-1/4- by 1-inch (W)		2,020	2,120	2,470	8.1	3.3	C33600
Do.	do.	T	1- by 1/2-inch (W)		2,080	2,160	2,440	8.8	3.1	C33601
Do.	do.	T	1/2-inch by 0 (W)		2,080	2,150	2,420	9.5	3.4	C33602
Middle Grove	No. 5	T	6-inch lump		1,960	2,060	2,470	5.6	2.9	B34620
Do.	do.	T	6- by 4-inch		2,010	2,100	2,460	9.6	3.7	B34621
Do.	do.	T	6- by 1-1/4-inch (W)		1,980	2,200	2,500	8.3	3.0	B34622
Do.	do.	T	4- by 2-inch (W)		2,050	2,210	2,470	7.9	2.9	B34623
Do.	do.	T	2- by 1-1/4-inch (W)		2,030	2,210	2,490	7.7	3.0	B34624
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,050	2,360	9.6	3.4	B34625
Vulcan	do.	T	6-inch lump		1,970	2,030	2,060	15.1	3.5	C33528
Do.	do.	T	6- by 4-inch		1,970	2,010	2,050	13.8	3.5	C33529
Do.	do.	T	4- by 2-inch (W)		1,970	2,010	2,060	12.3	3.2	C33530
Do.	do.	T	2- by 1-1/4-inch (W)		1,980	2,050	2,320	12.1	3.1	C33531
Do.	do.	T	1-1/4- by 1-inch (W)		1,970	2,060	2,360	11.8	3.0	C33532
Do.	do.	T	1- by 1/2-inch (W)		2,040	2,070	2,360	11.7	3.0	C33533
Do.	do.	T	1/2-inch by 0 (W)		2,040	2,080	2,400	11.0	2.9	C33534
Norris										
Bruketta	do.	T	4-inch lump		2,000	2,050	2,100	13.6	3.3	E29339
Do.	do.	T	4- by 1-1/4-inch		1,880	2,000	2,160	16.9	3.5	E29340
Do.	do.	T	1-1/4-inch by 0		1,970	2,040	2,310	21.3	2.8	E29341
Do.	do.	T	1-1/4- by 3/16-inch (W)		1,950	2,010	2,310	13.5	3.0	E29342
Do.	do.	T	3/4- by 3/16-inch (W)		1,950	2,010	2,250	15.0	3.1	E29343
Saint David										
Little Sister	do.	T	6- by 4-inch (W)		1,910	1,960	2,330	11.7	3.6	E61884
Do.	do.	T	4- by 2-inch (W)		1,930	1,970	2,360	12.0	3.5	E61885
Do.	do.	T	2- by 1-1/4-inch (W)		1,950	2,020	2,370	10.9	3.3	E61886
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,970	2,040	2,430	11.6	3.3	E61887
Do.	do.	T	3/4- by 5/16-inch (W)		1,930	2,020	2,380	11.3	2.9	E61888
Do.	do.	T	5/16-inch by 28-mesh (W)		1,980	2,050	2,380	10.6	2.9	E61889
Saint David	do.	T	9-inch lump		1,990	2,040	2,110	13.8	3.6	B34539
Do.	do.	T	9- by 5-inch		1,920	2,010	2,210	13.3	3.8	B34540
Do.	do.	T	5- by 2-inch		1,970	2,010	2,210	14.2	3.8	B34541
Do.	do.	T	2- by 1-1/4-inch		1,950	1,990	2,390	15.3	4.0	B34542
Do.	do.	T	1-1/4-inch by 0		1,990	2,040	2,390	19.0	3.8	B34543
Gallatin County										
Junction										
New Shawnee No. 1	do.	T	1-1/4-inch lump		1,970	2,010	2,280	11.4	4.3	B95001
Do.	do.	T	1-1/4- by 1/2-inch		1,950	2,010	2,310	12.2	3.8	B95002
Do.	do.	T	1/2-inch by 0		1,980	2,020	2,230	15.3	3.8	B95003

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Grundy County										
Morris										
Morroco	No. 2		T	5-inch lump		1,970	2,030	2,300	8.4	3.8	B35851
Do.		do.	T	5- by 1-inch		1,870	1,920	2,150	8.4	3.8	B35852
Do.		do.	T	1- by 1/4-inch		1,990	2,020	2,220	13.5	3.4	B35853
Verona											
Wright Brothers Coal Co.	No. 7		M		2	2,000	2,060	2,250	12.7	4.7	A86302 and A86303
Henry County											
Alpha											
Alpha	No. 1		M		3	2,170	2,240	2,380	11.1	6.7	A90505 to A90507
Atkinson											
Mecca No. 1	No. 6		T	7- by 2-inch (W)		1,920	2,080	2,450	7.5	3.2	D41077
Do.		do.	T	4- by 2-inch (W)		1,920	2,080	2,450	7.2	3.2	D41078
Do.		do.	T	2- by 1-1/4-inch (W)		2,000	2,080	2,310	7.5	3.1	D41079
Do.		do.	T	1-1/4-inch by 1/2 mm. (W)		2,000	2,080	2,310	7.7	3.1	D41080
Kewanee											
W. T. Lamb		do.	M		2	2,010	2,080	2,310	14.9	4.9	A86458 and A86459
Jackson County											
Carbondale											
Phillips	No. 2		M		3	1,980	2,080	2,490	12.0	5.0	B39586 to B39588
Do.		do.	T	1-1/2-inch lump		1,910	2,070	2,480	11.7	4.9	B39590
Do.		do.	T	1-1/2- by 1/2-inch		1,910	2,010	2,460	12.8	5.5	B39591
Do.		do.	T	1/2-inch by 0		1,870	2,080	2,480	18.3	7.0	B39592
Swofford No. 2		do.	M		3	1,910	2,020	2,330	9.3	3.7	B39376 to B39378
Do.		do.	T	1-1/2-inch lump		1,910	2,170	2,480	10.7	3.6	B39777
Do.		do.	T	1-1/2- by 1/2-inch		1,910	2,100	2,490	13.2	4.4	B39778
Do.		do.	T	1/2-inch by 0		1,910	2,080	2,480	17.8	5.2	B39779
De Sota											
Admiral	No. 6		T	8- by 4-inch (W)		2,070	2,320	2,470	10.4	3.7	D65241
Do.		do.	T	4- by 2-inch (W)		2,080	2,340	2,560	8.8	3.1	D65242
Do.		do.	T	2-inch by 0 (W)		2,140	2,500	2,590	8.7	3.0	D65243
Dowell											
Kathleen		do.	T	6-inch lump		2,270	2,420	2,700	9.6	1.3	B38528
Do.		do.	T	6- by 4-inch		2,130	2,430	2,580	9.1	1.4	B38529
Do.		do.	T	3/4- by 5/16-inch		2,110	2,360	2,580	9.7	1.3	B38530
Elkville											
Black Servant		do.	T	6-inch lump		1,960	2,010	2,250	14.4	4.7	A78502
Do.		do.	T	6- by 4-inch		1,930	2,000	2,260	13.3	4.2	A78503
Do.		do.	T	4- by 2-inch		1,900	2,000	2,320	13.3	4.3	A78504
Do.		do.	T	2- by 1-1/2-inch		1,920	2,040	2,410	13.0	3.9	A78505
Do.		do.	T	1-1/2-inch by 0		1,970	2,090	2,320	16.5	3.7	A78506
Do.		do.	M		2	2,080	2,190	2,490	11.1	2.7	A90760
Burning Star		do.	T	8- by 4-inch (W)		2,070	2,120	2,300	11.1	3.5	B94512
Do.		do.	T	4- by 2-inch (W)		2,080	2,150	2,370	10.5	3.2	B94513
Do.		do.	T	2- by 1-1/2-inch (W)		2,080	2,150	2,370	10.3	2.8	B94514
Do.		do.	T	1-1/2- by 3/4-inch (W)		2,110	2,190	2,420	10.1	2.8	B94515
Do.		do.	T	3/4- by 3/8-inch (W)		2,110	2,160	2,400	10.0	2.8	B94516
Do.		do.	T	3/8-inch by 0 (W)		2,090	2,150	2,300	10.5	2.8	B94517
Hallidayboro No. 1		do.	T	4- by 1-inch (W)		2,420	2,520	2,730	9.4	2.0	D49160
Do.		do.	T	1- by 5/16-inch (W)		2,430	2,540	2,730	9.1	2.0	D49161
Do.		do.	T	5/16-inch by 0		2,210	2,260	2,470	25.1	3.7	D49162
Joliana		do.	T	4- by 1-1/2-inch (W)		2,580	2,690	2,800	9.8	1.3	D98725
Do.		do.	T	1-1/2- by 7/8-inch (W)		2,490	2,590	2,690	8.7	1.4	D98726
Do.		do.	T	7/8- by 3/16-inch (W)		2,420	2,550	2,660	8.1	1.2	D98727
Do.		do.	T	3/16-inch by 0		2,430	2,590	2,810	27.8	1.4	D98728
Hallidayboro											
Forsyth		do.	M		1	2,100	2,180	2,480	14.3	3.5	A90725

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Jackson County (Con.)										
Hallidayboro										
Forsyth	No. 6	T	7-inch lump		1,930	2,120	2,340	12.3	3.8	B44022
Do.	do.	T	7- by 4-inch		1,930	2,120	2,340	11.9	3.9	B44023
Do.	do.	T	4- by 2-inch		1,950	2,140	2,370	12.7	4.0	B44024
Do.	do.	T	2- by 1-1/2-inch		1,880	2,200	2,420	12.7	3.8	B44025
Do.	do.	T	1-1/2- by 5/16-inch		1,880	2,100	2,340	15.3	3.9	B44026
Murphysboro										
Templeton	No. 1	M		3	2,030	2,170	2,450	6.2	1.2	B39307 to B39309
Do.	do.	T	2-inch lump		2,080	2,190	2,320	5.5	1.0	B39311
Do.	do.	T	2- by 3/4-inch		2,110	2,260	2,560	8.5	1.1	B39312
Do.	do.	T	3/4-inch by 0		2,100	2,150	2,450	12.0	1.5	B39313
Jefferson County										
Mason										
Jefferson No. 20	No. 6	T	6-inch lump		2,110	2,270	2,590	8.8	1.4	B40399
Do.	do.	T	6- by 3-inch		2,100	2,170	2,530	9.4	1.4	B40400
Do.	do.	T	3- by 2-inch		2,110	2,180	2,520	9.6	1.4	B40401
Do.	do.	T	2- by 1-1/2-inch		2,350	2,430	2,620	9.4	1.2	B40402
Do.	do.	T	1-1/2-inch by 0		2,170	2,250	2,580	12.3	1.4	B40403
Do.	do.	T	6-inch lump		2,510	2,650	2,910+	8.4	1.0	B69877
Do.	do.	T	6- by 3-inch		2,500	2,650	2,910+	7.6	1.1	B69878
Do.	do.	T	3- by 2-inch		2,480	2,620	2,910+	8.2	1.2	B69879
Do.	do.	T	1-1/2- by 3/4-inch		2,310	2,540	2,850	10.2	1.4	B69880
Do.	do.	T	3/4- by 3/8-inch		2,180	2,500	2,890	9.1	1.3	B69881
Do.	do.	T	3/8-inch by 0		2,220	2,370	2,670	10.5	1.3	B69882
Mason No. 10	do.	M		2	2,160	2,280	2,450	9.6	1.5	A17498 and A17499
Waltonville										
Orient No. 3	do.	T	6- by 3-inch (W)		2,420	2,570	2,680	9.0	1.2	D81740
Do.	do.	T	3- by 2-inch (W)		2,450	2,590	2,780	9.4	1.2	D81741
Do.	do.	T	2- by 1-1/2-inch (W)		2,420	2,570	2,710	9.1	1.2	D81742
Do.	do.	T	1-1/2- by 1-inch (W)		2,420	2,570	2,710	9.4	1.2	D81743
Do.	do.	T	1- by 7/16-inch (W)		2,390	2,510	2,590	9.3	1.3	D81744
Do.	do.	T	7/16-inch by 10-mesh		2,150	2,360	2,530	8.7	1.3	D81745
Do.	do.	T	10- by 48-mesh		2,190	2,240	2,430	11.1	1.3	D81746
Do.	do.	T	48-mesh by 0		2,130	2,170	2,410	12.4	1.6	D81747
Do.	do.	T	3- by 3/4-inch		2,440	2,550	2,750	7.8	1.2	E82898
Knox County										
Knoxville										
Thermal	No. 1	T	8-inch lump		1,940	2,010	2,450	6.4	4.0	B35121
Do.	do.	T	8- by 2-inch		1,940	2,030	2,390	7.9	4.4	B35122
Do.	do.	T	2- by 1-inch		1,950	2,040	2,390	11.3	6.0	B35123
Do.	do.	T	1-inch by 0		1,950	2,000	2,290	16.3	6.3	B35124
Victoria										
Diehle	No. 6	M		2	2,010	2,070	2,210	12.7	3.8	A86455 and A86456
Little John No. 5	do.	T	6- by 4-inch (W)		2,030	2,090	2,200	8.3	3.0	E29333

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Do.	do.	T	4- by 2-inch (W)		2,030	2,120	2,380	8.7	3.1	E29334
Do.	do.	T	2- by 1-1/4-inch (W)		1,870	2,100	2,360	7.1	2.9	E29336
Do.	do.	T	2- by 13/16-inch (W)		2,020	2,100	2,320	7.9	3.0	E29335
Do.	do.	T	1-1/4- by 13/16-inch (W)		1,970	2,120	2,380	8.0	3.1	E29337
Do.	do.	T	13/16-inch by 0 (W)		2,060	2,090	2,180	7.3	2.9	E29338
La Salle County										
Cedar Point										
Cedar Point No. 5	No. 2	M		3	1,840	1,910	2,010	9.4	3.9	84450 to 84452
Ottawa										
Buffalo Rock	do.	T	6-inch lump		2,180	2,310	2,370	14.3	9.1	B35489
Do.	do.	T	6- by 3-inch		2,080	2,140	2,330	12.6	7.4	B35490
Do.	do.	T	3- by 1-1/2-inch		1,890	1,920	2,140	12.4	6.5	B35491
Do.	do.	T	1-1/2-inch by 0		1,940	2,000	2,060	17.0	6.1	B35492
Osage No. 1	do.	T	6-inch lump		2,070	2,260	2,440	11.6	9.5	B35458
Do.	do.	T	6- by 3-inch		2,050	2,080	2,410	9.2	7.0	B35459
Do.	do.	T	3- by 1-1/4-inch		2,010	2,020	2,380	9.4	6.4	B35460
Ottawa	do.	T	Run-of-mine		1,930	1,970	2,230	14.1	6.5	B35734
Peru										
Peru No. 3	do.	T	6-inch lump		1,890	1,940	2,030	11.2	4.5	B35634
Do.	do.	T	6- by 3-inch		1,870	1,900	2,070	11.4	4.2	B35635
Do.	do.	T	3- by 2-inch		1,850	1,900	2,130	12.4	4.7	B35636
Do.	do.	T	2- by 3/4-inch		1,870	1,910	2,030	14.7	4.9	B35637
Do.	do.	T	3/4- by 5/16-inch		1,880	1,950	2,150	16.5	4.9	B35638
Do.	do.	T	5/16-inch by 0		1,900	1,980	2,140	19.9	4.5	B35639
Union	do.	T	6-inch lump		1,870	1,930	2,080	10.5	4.7	B35573
Do.	do.	T	6- by 2-1/4-inch		1,870	1,920	2,080	9.8	4.9	B35574
Do.	do.	T	2-1/4- by 1-1/4-inch		1,930	1,970	2,130	14.5	6.2	B35575
Do.	do.	T	1-1/4-inch by 0		1,910	1,930	2,260	17.2	5.8	B35576
Logan County										
Lincoln										
Citizens	No. 5	M		2	1,770	1,850	2,000	12.1	3.6	81591 and 81592
Macon County										
Decatur										
Macon County	do.	M		3	1,810	1,900	2,070	9.9	3.7	81595 to 81597
Do.	do.	T	6-inch lump		1,950	2,010	2,270	12.3	3.6	B36919
Do.	do.	T	6- by 2-1/2-inch		1,920	1,960	2,190	12.4	4.2	B36920
Do.	do.	T	2-1/2- by 1-1/2-inch		1,910	1,970	2,220	12.6	4.2	B36921
Do.	do.	T	1-1/2-inch by 0		1,920	1,970	2,310	15.5	3.6	B36922
Macoupin County										
Carlinsville										
Standard Oil No. 1	No. 6	M		3	1,890	1,960	2,090	12.9	4.9	81332 to 81334
Gillespie										
Gillespie	do.	T	6-inch lump		1,930	1,980	2,260	11.1	5.8	B37308
Do.	do.	T	6- by 2-inch		1,950	2,020	2,340	11.2	4.9	B37309
Do.	do.	T	2- by 1-1/2-inch		1,980	2,040	2,290	12.5	5.2	B37310
Do.	do.	T	1-1/2-inch by 0		2,000	2,020	2,270	14.4	5.3	B37311
Little Dog	do.	T	6-inch lump		2,010	2,170	2,420	13.5	5.6	D65508
Do.	do.	T	6- by 2-inch (W)		1,990	2,180	2,430	10.1	4.9	D65509
Do.	do.	T	2- by 3/4-inch (W)		2,010	2,100	2,360	10.0	4.4	D65510
Do.	do.	T	3/4-inch by 10-mesh (W)		2,070	2,290	2,470	10.0	4.2	D65511
Do.	do.	T	10-mesh by 0		2,050	2,130	2,420	20.7	4.7	D65512
Do.	do.	T	1-1/4-inch by 0		2,030	2,060	2,210	17.1	5.3	D65513
Superior No. 1	do.	M		3	1,960	2,000	2,430	11.9	5.0	A87363 to A87365
Girard										
Empire No. 4	do.	M		3	1,760	1,920	1,970	11.8	4.5	81327 to 81329

1. M, mine sample; T, tipple sample. 2. W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Macoupin County (Con.)										
Mount Olive										
Hoosier	No. 6	T	6-inch lump		1,930	1,970	2,310	10.9	5.0	B37111
Do.	do.	T	6- by 3-inch		1,940	2,010	2,300	12.5	5.1	B37112
Do.	do.	T	3- by 1-1/2-inch		1,950	2,020	2,360	14.7	5.7	B37113
Do.	do.	T	1-1/2-inch by 0		1,920	2,030	2,310	14.3	4.9	B37114
Do.	do.	T	2-inch by 0		1,960	2,040	2,410	18.8	4.9	B37115
Mount Olive No. 15	do.	T	6-inch lump		1,980	2,040	2,240	9.6	4.4	C33200
Do.	do.	T	6- by 3-inch		2,000	2,050	2,270	10.0	4.8	C33201
Do.	do.	T	3- by 2-inch		2,000	2,060	2,280	13.0	5.1	C33202
Do.	do.	T	2- by 1-1/4-inch		2,010	2,100	2,280	14.5	5.0	C33203
Do.	do.	T	1-1/4-inch by 0		1,980	2,020	2,210	13.9	5.0	C33204
Schoper										
Standard Oil No. 2 B	do.	M		1	1,880	1,960	2,060	10.7	4.1	81331
Staunton										
Consolidated No. 14	do.	M		3	1,890	1,990	2,220	10.7	4.2	81020 to 81022
Staunton No. 7	do.	M		3	1,870	2,050	2,170	10.4	4.4	81016 to 81018
Do.	do.	T	6-inch lump		1,920	1,970	2,210	11.1	5.1	D34668
Do.	do.	T	6- by 2-inch (W)		1,900	2,080	2,420	9.7	4.0	D34669
Do.	do.	T	2- by 1-1/4-inch (W)		1,900	2,100	2,420	10.6	3.8	D34670
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,970	2,100	2,470	10.9	3.9	D34671
Do.	do.	T	3/4- by 3/8-inch (W)		2,000	2,130	2,420	12.0	3.9	D34672
Do.	do.	T	3/8-inch by 0 (W)		1,950	2,040	2,260	14.6	4.0	D34673
Virden										
Royal	do.	M		3	1,800	1,950	2,040	10.2	4.0	81323 to 81325
Virden	do.	T	6-inch lump		1,930	1,990	2,180	11.0	5.1	E60096
Do.	do.	T	6- by 1-1/2-inch		1,970	2,040	2,260	12.6	5.0	E60097
Do.	do.	T	1-1/2-inch by 0		1,970	2,040	2,270	12.6	4.9	E60098
Madison County										
Collinsville										
Abbey	do.	M		3	1,870	1,980	2,130	11.6	4.4	80862 to 80864
Burn Well	do.	T	3-inch lump		1,990	2,010	2,350	11.2	4.9	B37674
Do.	do.	T	3- by 1-1/2-inch		1,990	2,040	2,440	14.1	5.2	B37675
Do.	do.	T	1-1/2-inch by 0		1,970	2,030	2,300	16.7	4.7	B37676
Cantine No. 2	do.	T	7-inch lump		1,910	1,970	2,240	12.9	5.3	D36337
Do.	do.	T	7- by 4-inch		1,940	2,030	2,260	12.4	5.1	D36338
Do.	do.	T	4-inch by 0		1,940	2,050	2,340	16.6	4.4	D36339
Do.	do.	T	4-inch by 0 (W)		1,970	2,030	2,210	10.9	4.1	D36340
Cantine No. 4	do.	T	8- by 1-1/2-inch (W)		1,970	2,080	2,220	10.8	4.6	D65244
Do.	do.	T	1-1/2- by 5/16-inch (W)		1,940	2,030	2,180	10.5	4.2	D65245
Do.	do.	T	1-1/2-inch by 1/2-mm. (W)		1,970	2,040	2,220	9.6	4.0	D65246
Do.	do.	T	3/4-inch by 1/2-mm. (W)		2,030	2,070	2,100	10.0	3.9	D65247
Chapman No. 1	do.	T	5-inch lump		1,920	1,970	2,210	11.7	4.3	D48390
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,310	20.8	4.9	D48391
Do.	do.	T	3/4-inch by 0 (W)		2,130	2,180	2,380	10.6	3.9	D48392
Edwardsville										
Madison County No. 1	do.	M		3	1,930	2,040	2,120	12.5	4.3	80942 to 80944

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Truck Trade	do.	T	8-inch lump		1,970	2,050	2,280	12.9	4.1	D33665
Do.	do.	T	8- by 3-inch		1,920	2,000	2,230	13.0	4.4	D33666
Do.	do.	T	3- by 1-1/4-inch		1,920	2,000	2,230	18.6	5.6	D33667
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,310	18.8	5.1	D33668
Livingston										
Livingston No. 1	do.	T	6-inch lump		2,000	2,030	2,200	8.1	3.6	D98099
Do.	do.	T	6- by 4-inch		1,990	2,030	2,310	8.7	3.5	D98100
Do.	do.	T	4- by 1-1/4-inch (W)		2,000	2,060	2,380	9.1	3.5	D98101
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,000	2,050	2,310	8.9	3.6	D98102
Do.	do.	T	3/4- by 3/16-inch (W)		1,940	2,020	2,230	8.5	3.5	D98103
Do.	do.	T	3/16-inch by 0		1,930	1,990	2,220	16.7	4.2	D98104
Staunton (Macoupin County)										
Staunton No. 2	do.	T	6-inch lump		1,940	2,000	2,230	12.3	6.3	E59396
Do.	do.	T	6- by 4-inch (W)		2,020	2,110	2,430	8.4	4.0	E59397
Do.	do.	T	4- by 2-inch (W)		1,990	2,100	2,440	9.8	4.0	E59398
Do.	do.	T	2- by 1-1/4-inch (W)		2,010	2,110	2,470	10.5	4.0	E59399
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,110	2,470	11.8	3.8	E59400
Marion County										
Glen Ridge										
Glen Ridge	do.	M		3	1,870	1,990	2,220	11.8	3.7	80695 to 80697
Do.	do.	T	6-inch lump		2,000	2,070	2,320	13.4	4.0	E58770
Do.	do.	T	6- by 3-inch		1,970	2,060	2,230	14.3	4.2	E58771
Do.	do.	T	3- by 1-1/2-inch (W)		1,940	2,040	2,330	13.5	3.9	E58772
Do.	do.	T	1-1/2-inch by 0		1,940	2,040	2,330	18.0	4.3	E58773
Sandoval										
Sandoval No. 2	do.	M		6	1,900	2,040	2,210	12.7	4.5	80737 to 80742
Marshall County										
Chillicothe (Peoria County)										
Lopeman and Butler	No. 7	M		2	1,980	2,020	2,160	19.0	4.8	A45318 and A45319
Sparland										
Tony Turk	do.	M		2	2,000	2,060	2,130	15.4	3.4	A45463 and A45464
Menard County										
Greenview										
Greenview	No. 5	M		2	1,950	2,010	2,300	12.3	3.5	A86593 and A86594
Montgomery County										
Farmersville										
Crown	No. 6	T	6- by 3-inch (W)		1,990	2,020	2,150	12.5	5.4	D98404
Do.	do.	T	3- by 1-1/2-inch (W)		2,000	2,030	2,180	10.5	4.2	D98405
Do.	do.	T	1-1/2-inch by 0		2,000	2,060	2,170	12.2	3.9	D98406
Do.	do.	T	1-1/2- by 1/8-inch		1,980	2,060	2,360	11.1	4.5	D98407
Do.	do.	T	3/4- by 1/8-inch		1,960	2,020	2,260	10.1	4.4	D98408
Hillsboro										
Hillsboro	do.	T	4-inch lump		1,940	1,990	2,420	11.8	4.9	B37003
Do.	do.	T	4- by 1-1/4-inch		1,940	1,990	2,420	14.2	5.6	B37004
Do.	do.	T	1-1/4-inch by 0		1,970	2,000	2,390	13.9	4.8	B37005
Nokomis										
Indiana and Illinois No. 10	do.	M		3	1,790	1,900	2,000	11.1	4.7	81101 to 81103
Indiana and Illinois No. 11	do.	M		3	1,960	2,030	2,440	12.2	4.6	A87367 to A87369
Nokomis No. 1	do.	M		1	1,690	1,840	1,870	10.4	4.6	81095
Nokomis No. 10	do.	T	6-inch lump		1,830	1,900	2,280	9.5	4.8	B37036
Do.	do.	T	6- by 3-inch		1,930	1,980	2,290	10.3	4.4	B37037
Do.	do.	T	3- by 1-1/4-inch		1,960	2,010	2,410	12.4	4.9	B37038
Do.	do.	T	1-1/4-inch by 0		1,900	1,980	2,200	13.7	4.9	B37039
Reliance	do.	T	6-inch lump		1,970	2,030	2,080	12.1	5.7	D12284
Do.	do.	T	6- by 3-inch		1,920	1,970	2,180	13.9	5.8	D12285

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Montgomery County (Con.)										
Nokomis										
Reliance	No. 6	T	3- by 2-inch		1,920	1,970	2,180	15.5	5.9	D12286
Do.	do.	T	2-inch by 0		1,920	1,970	2,210	14.8	5.2	D12287
Witt										
Indiana and Illinois No. 12	do.	M		2	1,910	2,060	2,130	11.7	4.9	81089 and 81091
Peoria County										
Edwards										
Morgan - Edwards	do.	T	6- by 4-inch (W)		2,110	2,210	2,500	7.8	2.9	E61895
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,030	2,170	2,520	7.6	3.1	E61896
Do.	do.	T	3/4- by 3/16-inch (W)		2,020	2,160	2,430	7.8	3.2	E61897
Do.	do.	T	1-inch by 28-mesh (W)		1,990	2,200	2,500	8.1	3.2	E61898
Glasford										
Glasford No. 4	No. 5	M		3	1,900	1,980	2,040	13.2	3.4	84230 to 84232
Hanna City										
Dorthel No. 1	do.	M		3	1,990	2,050	2,270	14.4	2.8	A88224 to A88226
Peoria										
La Marsh No. 1	do.	M		3	1,790	1,900	1,990	13.2	4.4	84560 to 84562
Do.	do.	T	2-inch lump		1,910	1,950	2,250	13.7	4.3	B34832
Do.	do.	T	2-inch by 0		1,980	2,050	2,390	16.3	3.8	B34833
La Marsh No. 6	do.	M		3	2,070	2,130	2,400	11.2	3.0	A90424, A90425 and A90519
Do.	do.	T	8-inch lump		1,940	2,010	2,370	13.9	3.7	B34829
Do.	do.	T	8- by 1-1/4-inch		1,950	2,010	2,310	14.5	3.5	B34830
Do.	do.	T	1-1/4-inch by 0		2,000	2,040	2,330	17.6	3.0	B34831
Perry County										
Coulterville (Randolph Co.)										
Perco	No. 6	T	6-inch lump		1,960	2,000	2,150	12.7	4.2	B39923
Do.	do.	T	6- by 1-1/2-inch		1,960	2,030	2,230	15.0	4.3	B39924
Do.	do.	T	1-1/2-inch by 0		1,960	2,010	2,140	16.8	4.2	B39925
Cutler										
Cutler New-Wilson	do.	T	7-inch lump		1,930	1,980	2,360	13.7	5.0	E59401
Do.	do.	T	7- by 4-inch		1,970	2,050	2,390	12.4	4.2	E59402
Do.	do.	T	4- by 1-1/2-inch		2,000	2,050	2,390	11.1	3.8	E59403
Do.	do.	T	1-1/2-inch by 0		2,000	2,020	2,310	15.2	4.5	E59404
Whip Poor Will	do.	T	8-inch lump		1,890	2,010	2,260	11.7	4.0	B44159
Do.	do.	T	8- by 3-inch		1,900	2,040	2,320	13.2	4.0	B44160
Do.	do.	T	3- by 1-1/2-inch		1,890	2,050	2,390	14.9	4.0	B44161
Do.	do.	T	1-1/2-inch by 0		1,990	2,080	2,230	20.3	4.0	B44162
Du Quoin										
Black Gold	do.	T	6-inch lump		2,050	2,180	2,490	8.3	2.2	B94264
Do.	do.	T	6- by 1-1/2-inch		2,050	2,160	2,490	8.7	2.2	B94265
Do.	do.	T	1-1/2-inch by 0		2,160	2,200	2,450	12.2	2.1	B94266
Fidelity No. 11	do.	T	8-inch lump		1,920	1,970	2,210	10.8	3.3	D41598
Do.	do.	T	8- by 4-inch (W)		2,120	2,170	2,410	9.1	2.4	D41599

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Do.	do.	T	4- by 1-1/4-inch (W)	2,100	2,160	2,390	9.9	2.7	D41600
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,090	2,160	2,360	10.5	2.7	D41601
Do.	do.	T	3/4- by 3/8-inch (W)	2,100	2,160	2,370	10.2	2.6	D41602
Do.	do.	T	3/8-inch by 28-mesh (W)	2,110	2,170	2,370	9.2	2.5	D41603
Majestic No. 14	do.	T	6-1/2-inch lump	2,250	2,420	2,590	8.1	1.4	C32564
Do.	do.	T	6-1/2- by 3-inch (W)	2,360	2,480	2,650	8.5	1.2	C32565
Do.	do.	T	3- by 1-1/2-inch (W)	2,420	2,520	2,720	8.9	1.2	C32566
Do.	do.	T	1-1/2-inch by 0 (W)	2,180	2,420	2,700	8.8	1.2	C32567
Do.	do.	T	1-1/2-inch by 0	2,170	2,230	2,540	14.0	1.6	C32568
New Kathleen	do.	T	6- by 4-inch (W)	2,070	2,130	2,390	10.6	2.6	E58208
Do.	do.	T	4- by 2-inch (W)	1,990	2,150	2,340	9.8	2.3	E58209
Do.	do.	T	2- by 1-1/4-inch (W)	2,070	2,160	2,420	9.0	2.3	E58210
Do.	do.	T	1-1/4- by 1/2-inch (W)	2,040	2,130	2,420	9.1	2.1	E58211
Do.	do.	T	1/2-inch by 3-mm. (W)	2,040	2,130	2,420	8.8	2.1	E58212
Perfection	do.	T	Run-of-mine	2,000	2,180	2,530	9.1	2.2	B38821
Pinckneyville									
Pyramid No. 1	do.	T	7- by 4-inch (W)	2,000	2,050	2,420	11.5	3.8	D35240
Do.	do.	T	4- by 2-inch (W)	2,030	2,120	2,450	10.0	3.3	D35241
Do.	do.	T	2- by 1-1/4-inch (W)	2,030	2,100	2,470	10.0	3.5	D35242
Do.	do.	T	1-1/4-inch by 0 (W)	2,080	2,180	2,420	10.1	2.9	D35243
Pyramid No. 3	do.	T	7- by 4-inch	1,930	2,170	2,380	12.9	4.1	B39034
Do.	do.	T	4- by 2-inch	1,970	2,210	2,410	12.2	4.0	B39035
Tamaroa									
Victory	do.	T	7-inch lump	2,020	2,050	2,090	12.0	4.5	B64604
Do.	do.	T	7- by 4-inch	2,020	2,050	2,110	10.4	3.9	B64605
Do.	do.	T	4- by 1-1/2-inch	2,020	2,050	2,100	13.6	4.9	B64606
Do.	do.	T	1-1/2-inch by 0	2,020	2,050	2,320	17.4	4.8	B64607
Do.	do.	T	1-1/2-inch by 10-mesh	2,000	2,050	2,220	16.2	4.4	B64608
Randolph County									
Coulterville									
Florida	do.	T	8-inch lump	2,000	2,050	2,360	11.0	3.5	D34343
Do.	do.	T	8- by 4-inch	2,030	2,080	2,360	11.0	3.3	D34344
Do.	do.	T	4- by 2-inch	2,000	2,050	2,360	15.4	4.0	D34345
Do.	do.	T	2- by 1-1/4-inch (W)	2,050	2,080	2,420	11.6	3.0	D34346
Do.	do.	T	1-1/4-inch by 0 (W)	2,050	2,100	2,420	12.1	3.1	D34347
Percy									
Streamline	do.	T	7- by 4-inch (W)	1,990	2,110	2,380	10.9	3.6	D81734
Do.	do.	T	4- by 2-inch (W)	2,000	2,190	2,470	9.6	3.1	D81735
Do.	do.	T	2- by 1-1/2-inch (W)	2,000	2,150	2,420	9.5	3.1	D81736
Sparta									
Bradbury	do.	T	7- by 4-inch (W)	2,010	2,070	2,310	10.6	3.4	E58073
Do.	do.	T	4- by 2-inch (W)	2,070	2,150	2,420	10.0	3.1	E58074
Do.	do.	T	2- by 1-1/4-inch (W)	2,070	2,180	2,480	9.7	3.0	E58075
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,070	2,150	2,470	9.7	3.1	E58076
Do.	do.	T	3/4- by 1/4-inch (W)	2,030	2,110	2,470	9.3	3.0	E58077
Do.	do.	T	1/4-inch by 28-mesh (W)	2,030	2,090	2,430	11.8	3.0	E58078
Illinois - Missouri	do.	T	6-inch lump	1,940	2,030	2,350	15.8	4.7	B44301
Do.	do.	T	6- by 2-inch	1,990	2,100	2,350	15.8	4.7	B44302
Do.	do.	T	2-inch by 0	2,030	2,170	2,530	25.5	3.7	B44303
Moffat	do.	T	7-inch lump (W)	1,970	2,050	2,380	9.0	3.6	E58203
Do.	do.	T	7- by 3-inch (W)	1,970	2,060	2,260	10.4	3.5	E58204
Do.	do.	T	3- by 7/8-inch (W)	1,970	2,050	2,260	11.7	3.9	E58205
Do.	do.	T	7/8- by 1/4-inch (W)	2,000	2,080	2,290	10.7	3.5	E58206
Do.	do.	T	1/4-inch by 28-mesh (W)	1,930	2,040	2,260	11.1	3.5	E58207
Sparta No. 1	do.	T	6-inch by 0 (W)	1,960	2,110	2,320	14.3	3.9	B39840
St. Clair County									
Belleville									
Belle Valley	do.	T	4-inch lump	1,900	1,970	2,210	12.9	4.8	D36581

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
St. Clair County (Con.)										
Belleville										
Belle Valley	No. 6	T	4- by 2-inch (W)		2,000	2,030	2,310	10.2	3.8	D36582
Do.	do.	T	2- by 1-1/2-inch (W)		2,000	2,050	2,310	10.6	3.7	D36583
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,940	2,030	2,330	10.4	3.7	D36584
Black Eagle No. 2	do.	T	6- by 2-inch (W)		1,980	2,050	2,300	12.0	4.2	B64441
Do.	do.	T	6- by 3-inch (W)		1,980	2,050	2,300	11.2	4.3	B64442
Do.	do.	T	3- by 1-1/4-inch (W)		1,980	2,110	2,380	10.7	3.7	B64443
Do.	do.	T	1-1/4- by 1/32-inch (W)		2,040	2,110	2,330	10.4	3.6	B64444
Muren	do.	T	2-inch lump		1,970	2,020	2,300	12.1	4.6	B95264
Do.	do.	T	2- by 1-1/2-inch		2,010	2,040	2,210	13.5	4.1	B95265
Do.	do.	T	1-1/2-inch by 0		2,020	2,080	2,280	18.8	3.9	B95266
New National	do.	T	6- by 3-inch		1,950	2,060	2,310	11.8	4.1	B45012
Do.	do.	T	3- by 1-1/2-inch		1,960	2,070	2,330	17.1	5.4	B45013
Do.	do.	T	1-1/2-inch by 0		2,010	2,110	2,400	21.2	4.7	B45014
Prairie	do.	T	2-inch lump		1,970	2,060	2,370	13.1	4.6	B44956
Do.	do.	T	6- by 2-inch		1,970	2,060	2,370	14.6	5.4	B44957
Do.	do.	T	2- by 1-1/4-inch		1,980	2,140	2,400	14.7	4.4	B44958
Do.	do.	T	1-1/4-inch by 0		1,980	2,100	2,430	19.9	4.8	B44959
Quality	do.	T	2-inch lump		1,960	2,060	2,330	14.6	5.1	B44610
Do.	do.	T	2- by 1-1/2-inch (W)		1,990	2,160	2,610	11.8	4.2	B44611
Do.	do.	T	1-1/2-inch by 0 (W)		2,020	2,210	2,690	11.7	3.9	B44612
Richland	do.	T	6- by 1-1/2-inch		1,980	2,040	2,440	17.6	5.5	B81349
Do.	do.	T	1-1/2-inch by 0		2,020	2,130	2,420	22.9	4.6	B81350
Service	do.	T	6-inch lump		1,990	2,040	2,360	12.9	4.8	B44483
Do.	do.	T	6- by 3-inch		1,980	2,080	2,580	14.6	4.6	B44484
Do.	do.	T	3- by 2-inch (W)		1,980	2,110	2,640	12.1	4.0	B44485
Do.	do.	T	2- by 1-1/2-inch (W)		2,010	2,120	2,620	12.6	3.9	B44486
Do.	do.	T	1-1/2-inch by 0 (W)		2,070	2,160	2,700	11.0	3.5	B44487
Shiloh Valley	do.	T	6-inch lump		2,000	2,090	2,340	13.0	4.3	B64165
Do.	do.	T	6- by 2-inch		2,030	2,120	2,330	11.8	4.0	B64166
Do.	do.	T	2- by 1-1/2-inch		2,000	2,090	2,340	12.9	4.6	B64167
Do.	do.	T	1-1/2-inch by 0		1,910	2,030	2,210	16.2	5.1	B64168
White	do.	T	6-inch lump		1,980	2,030	2,440	14.0	5.0	B44758
Do.	do.	T	6- by 3-inch		1,970	2,020	2,390	14.1	5.3	B44759
Do.	do.	T	3- by 1-1/4-inch (W)		1,980	2,090	2,530	13.3	4.2	B44760
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,960	2,090	2,490	12.4	3.7	B44761
Do.	do.	T	3/4- by 3/8-inch (W)		1,960	2,090	2,490	13.0	3.7	B44762
Do.	do.	T	3/8-inch by 0 (W)		1,950	2,090	2,490	13.5	3.4	B44763
Collinsville (Madison County)										
Consolidated No. 17	do.	M		3	1,910	2,160	2,310	11.4	4.2	80823 to 80825
East St. Louis										
Gundlach	do.	T	1-1/2-inch lump		1,920	2,020	2,240	16.1	5.5	B40255
Do.	do.	T	1-1/2-inch by 0		1,920	1,990	2,210	20.0	5.1	B40256
Freeburg										
Mulberry Hill	do.	T	8-inch lump		1,940	2,020	2,360	12.3	4.7	B44405
Do.	do.	T	8- by 2-inch		1,910	2,030	2,300	12.7	4.7	B44406
Do.	do.	T	2- by 1-1/4-inch		1,910	2,030	2,300	16.1	5.2	B44407

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Do.	do.	T	1-1/4-inch by 0		1,910	2,030	2,300	17.6	4.7	B44408
Red Ray No. 13	do.	T	7-inch lump		1,930	1,990	2,200	11.2	4.2	B38728
Do.	do.	T	7- by 3-inch		1,920	1,990	2,190	11.6	4.6	B38729
Do.	do.	T	3- by 1-1/2-inch		1,920	1,990	2,190	11.9	4.4	B38730
Do.	do.	T	1-1/2-inch by 0		1,930	1,990	2,280	16.3	4.7	B38731
Lebanon										
Premier	do.	M		3	1,950	2,130	2,330	13.1	2.1	80827 to 80829
Lenzburg										
Golden Rule	do.	T	6-inch lump		1,940	2,020	2,280	13.5	4.9	B40061
Do.	do.	T	6- by 1-1/2-inch		1,940	2,020	2,280	13.9	4.4	B40062
Do.	do.	T	1-1/2-inch by 0		2,000	2,060	2,190	17.9	4.3	B40063
Lenzburg	do.	T	8-inch by 0		1,940	2,020	2,240	17.0	5.0	B40060
Do.	do.	T	8-inch lump		1,970	2,020	2,230	13.6	4.5	B40059
Seminole	do.	T	7- by 4-inch (W)		2,080	2,150	2,450	8.8	3.2	E38121
Do.	do.	T	4- by 2-inch (W)		2,050	2,130	2,430	10.0	3.3	E38122
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,040	2,100	2,380	10.7	3.5	E38123
Do.	do.	T	3/4- by 1/4-inch (W)		2,010	2,100	2,310	10.7	3.5	E38124
Do.	do.	T	3/4-inch by 28-mesh (W)		2,030	2,100	2,340	10.6	3.4	E38125
Vinegar Hill	do.	T	8-inch lump		2,010	2,040	2,410	12.7	4.5	B40101
Do.	do.	T	8- by 3-inch		2,020	2,070	2,420	13.5	4.3	B40102
Do.	do.	T	3- by 1-1/2-inch		1,940	2,040	2,340	18.8	5.5	B40103
Do.	do.	T	1-1/2-inch by 0		1,980	2,050	2,280	18.0	4.6	B40104
Marissa										
Green Diamond	do.	T	4- by 1-1/4-inch (W)		2,000	2,030	2,360	17.7	4.8	D41458
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,030	2,360	11.8	4.2	D41459
Do.	do.	T	4-inch by 0		1,940	2,000	2,230	11.5	4.0	D41460
Mary Kay	do.	T	6-inch lump		1,980	2,030	2,250	14.1	4.4	E58070
Do.	do.	T	6- by 1-1/2-inch		2,000	2,040	2,310	15.7	4.3	E58071
Do.	do.	T	1-1/2-inch by 0		1,940	2,010	2,370	18.8	5.2	E58072
O. K.	do.	T	6-inch lump		1,980	2,060	2,350	12.1	4.2	B44334
Do.	do.	T	6- by 3-inch		1,980	2,080	2,370	15.4	4.8	B44335
Do.	do.	T	3- by 1-1/2-inch		1,970	2,090	2,360	15.5	4.9	B44336
Do.	do.	T	1-1/2-inch by 0		1,980	2,080	2,500	16.4	4.5	B44337
Millstadt										
Midwest	do.	T	6- by 4-inch (W)		2,130	2,360	2,450	10.5	3.3	D34348
Do.	do.	T	4- by 2-inch (W)		2,050	2,360	2,550	10.3	3.1	D34349
Do.	do.	T	2-inch by 1/2-mm. (W)		2,130	2,360	2,570	9.7	3.3	D34350
Do.	do.	T	1/2-mm. by 0 (W)		2,100	2,210	2,500	9.9	3.0	D34351
Morgan Millstadt	do.	T	7-inch lump		1,940	2,040	2,330	12.4	4.9	E58774
Do.	do.	T	7- by 4-inch		2,010	2,140	2,360	11.6	4.1	E58775
Do.	do.	T	4- by 3-inch		1,950	2,120	2,390	11.5	4.2	E58776
Do.	do.	T	3- by 1-1/4-inch (W)		2,050	2,240	2,500	10.8	3.6	E58777
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,970	2,180	2,500	11.7	3.7	E58778
Do.	do.	T	3/4-inch by 1-mm. (W)		1,940	2,180	2,390	12.2	3.7	E58779
O'Fallon										
Black Eagle No. 2	do.	T	9- by 4-inch		1,920	1,970	2,260	12.0	5.2	D33033
Do.	do.	T	4- by 1-1/2-inch (W)		2,030	2,080	2,260	10.1	4.1	D33034
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,040	2,090	2,360	9.8	3.8	D33035
Do.	do.	T	3/4- by 3/8-inch (W)		2,080	2,100	2,380	10.0	3.9	D33036
Do.	do.	T	3/8-inch by 0 (W)		2,000	2,080	2,360	10.7	3.7	D33037
St. Ellen	do.	T	7- by 4-inch (W)		1,920	1,970	2,260	12.2	4.8	D33038
Do.	do.	T	4- by 1-1/4-inch (W)		2,050	2,080	2,310	11.7	4.3	D33039
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,050	2,310	11.4	4.0	D33040
Saline County										
Carriers Mills										
Blue Bird	No. 5	T	6-inch lump		1,940	2,050	2,320	9.8	2.8	E56507
Do.	do.	T	6- by 3-inch (W)		2,000	2,040	2,360	9.1	2.6	E56508
Do.	do.	T	3- by 1-1/2-inch (W)		2,000	2,050	2,360	9.0	2.5	E56509
Do.	do.	T	1-1/2- by 1/8-inch (W)		1,960	2,050	2,420	9.2	2.3	E56510
Blue Bird No. 6	do.	T	6-inch lump		1,930	2,050	2,430	8.2	2.6	B36776

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Saline County (Con.)										
Carriers Mills										
Blue Bird No. 6	No. 5	T	6- by 1-1/2-inch		2,010	2,060	2,410	9.5	3.0	B36777
Do.	do.	T	1-1/2- by 1/8-inch		2,030	2,060	2,450	15.6	3.3	B36778
Delta	do.	T	6-inch lump		2,070	2,170	2,540	8.1	2.2	B37557
Do.	do.	T	6- by 3-1/2-inch (W)		2,120	2,180	2,550	8.7	2.0	B37558
Do.	do.	T	3-1/2- by 2-inch (W)		2,080	2,120	2,540	9.0	2.3	B37559
Do.	do.	T	1-1/2- by 1-inch (W)		2,040	2,100	2,470	8.7	2.3	B37560
Do.	do.	T	1- by 5/8-inch (W)		2,040	2,120	2,480	9.2	2.4	B37561
Do.	do.	T	5/8-inch by 10-mesh (W)		2,040	2,130	2,460	8.8	2.4	B37562
Sahara No. 5	do.	T	6- by 3-inch (W)		2,020	2,090	2,360	9.2	2.0	B37363
Do.	do.	T	3- by 2-inch (W)		1,990	2,090	2,400	8.7	2.0	B37364
Do.	do.	T	2- by 1-1/2-inch (W)		2,020	2,090	2,410	8.6	2.0	B37365
Do.	do.	T	1-1/2- by 1-inch (W)		1,990	2,100	2,510	8.0	2.0	B37366
Do.	do.	T	1- by 3/8-inch (W)		2,020	2,080	2,490	8.1	1.8	B37367
Do.	do.	T	3/8-inch by 6-mesh (W)		2,020	2,080	2,310	8.4	1.8	B37368
Sahara No. 6	No. 6	T	6- by 3-inch (W)		2,010	2,100	2,420	10.2	3.1	B37369
Do.	do.	T	3- by 2-inch (W)		2,070	2,180	2,480	9.5	2.9	B37370
Do.	do.	T	2- by 1-1/2-inch (W)		2,150	2,250	2,550	9.7	2.8	B37371
Do.	do.	T	1-1/2- by 1-inch (W)		2,150	2,320	2,500	9.5	2.6	B37372
Do.	do.	T	1- by 3/8-inch (W)		2,170	2,310	2,630	9.5	2.6	B37373
Do.	do.	T	3/8-inch by 0 (W)		2,130	2,230	2,660	8.7	2.8	B37374
Eldorado										
Derco No. 2	No. 5	T	6-inch lump		1,930	2,020	2,350	9.1	2.9	D40883
Do.	do.	T	6- by 3-1/4-inch		1,920	2,050	2,360	8.2	2.3	D40884
Do.	do.	T	3-1/4- by 1-1/2-inch		1,920	2,050	2,420	9.7	2.7	D40885
Do.	do.	T	1-1/2-inch by 0		2,030	2,080	2,340	13.9	2.7	D40886
Do.	do.	T	3/4-inch by 10-mesh		2,050	2,130	2,420	14.8	2.4	D40887
Do.	do.	T	10-mesh by 0		2,000	2,050	2,380	16.1	2.8	D40888
Rex No. 2	do.	T	7-inch lump		1,950	2,060	2,430	8.0	2.1	B38420
Do.	do.	T	7- by 3-inch		1,940	2,070	2,480	8.0	2.2	B38421
Do.	do.	T	3- by 2-inch		2,030	2,080	2,370	7.8	2.2	B37882
Do.	do.	T	2- by 1-1/2-inch		1,940	2,020	2,390	8.9	2.8	B37883
Do.	do.	T	1-1/2-inch by 0		1,990	2,050	2,280	11.7	2.8	B37884
Sahara No. 10	do.	T	6-inch lump		2,020	2,070	2,500	8.4	2.2	B37666
Do.	do.	T	6- by 2-inch		1,990	2,080	2,420	7.9	2.1	B37668
Do.	do.	T	2-inch by 0		2,030	2,070	2,330	11.1	2.4	B37669
Do.	do.	T	6-inch by 0 (W)		2,060	2,090	2,330	9.8	2.2	B37667
Galatia										
Peabody No. 40	do.	T	6- by 3-inch (W)		2,000	2,080	2,420	9.5	2.6	D64568
Do.	do.	T	3- by 1-1/2-inch (W)		1,970	2,080	2,420	8.9	2.3	D64569
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,000	2,150	2,310	9.3	2.2	D64570
Do.	do.	T	3/4-inch by 28-mesh (W)		2,000	2,100	2,420	9.3	2.1	D64571
Harco										
Harco No. 47	do.	T	6- by 3-inch (W)		2,110	2,350	2,540	7.5	1.4	B63391
Do.	do.	T	3- by 2-inch (W)		1,950	2,260	2,530	7.5	1.7	B63392
Do.	do.	T	2- by 1-1/2-inch (W)		2,090	2,280	2,490	7.3	1.7	B63393
Do.	do.	T	1-1/2-inch by 0		2,150	2,250	2,490	12.1	1.6	B63394

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Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,140	2,250	2,530	7.5	1.6	B63395
Peabody No. 43	do.	T	6-inch lump		1,940	2,050	2,420	9.0	3.0	D40238
Do.	do.	T	6- by 1-1/2-inch		1,940	2,050	2,420	15.3	3.7	D40239
Do.	do.	T	1-1/2-inch by 0		1,940	2,080	2,360	16.9	2.7	D40240
Do.	do.	T	6- by 3-inch (W)		1,940	2,050	2,310	8.6	2.8	D64880
Do.	do.	T	3- by 1-1/2-inch (W)		1,870	2,080	2,310	7.8	2.3	D64881
Harrisburg										
Premium No. 43	do.	T	6- by 3-inch (W)		2,040	2,110	2,450	7.6	2.0	B63732
Do.	do.	T	3- by 2-inch (W)		2,050	2,130	2,450	7.6	2.2	B63733
Do.	do.	T	2- by 1-1/2-inch (W)		2,030	2,120	2,460	7.6	2.1	B63734
Do.	do.	T	1-1/2-inch by 0		2,060	2,110	2,480	15.6	2.8	B63735
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,040	2,110	2,460	7.7	2.0	B63736
Do.	do.	T	3/4-inch by 28-mesh (W)		2,010	2,120	2,470	9.2	2.4	B63737
Do.	do.	T	5/16-inch by 28-mesh (W)		2,010	2,100	2,410	9.9	2.2	B63738
Sahara No. 1	do.	M		3	2,030	2,130	2,390	8.4	2.2	A90719 to A90721
Do.	do.	T	6-inch lump		1,970	2,010	2,380	9.1	2.7	B37670
Do.	do.	T	6- by 2-inch		1,960	2,050	2,400	8.5	2.5	B37671
Do.	do.	T	2- by 1-1/2-inch		1,970	2,080	2,430	10.8	2.8	B37672
Do.	do.	T	1-1/2-inch by 0		2,020	2,060	2,400	11.8	2.4	B37673
Sahara No. 5	do.	T	6- by 3-inch (W)		1,960	2,070	2,400	7.6	2.4	E56775
Do.	do.	T	3- by 2-inch (W)		1,970	2,120	2,460	7.3	2.2	E56776
Do.	do.	T	2- by 1-1/2-inch (W)		1,990	2,140	2,450	7.3	2.2	E56777
Do.	do.	T	1-1/2- by 1-inch (W)		1,940	2,110	2,440	7.5	2.3	E56778
Do.	do.	T	1- by 5/8-inch (W)		1,930	2,080	2,430	7.8	2.3	E56779
Do.	do.	T	5/8-inch by 28-mesh (W)		1,830	2,100	2,420	8.0	2.1	E56780
Sahara No. 6	No. 6	T	6- by 3-inch (W)		2,030	2,160	2,490	7.7	2.8	E56781
Do.	do.	T	3- by 2-inch (W)		2,020	2,160	2,510	8.4	2.9	E56782
Do.	do.	T	2- by 1-1/2-inch (W)		2,020	2,160	2,530	8.7	2.8	E56783
Do.	do.	T	1-1/2- by 1-inch (W)		2,050	2,180	2,530	8.4	2.8	E56784
Do.	do.	T	1- by 5/8-inch (W)		2,070	2,420	2,540	9.0	2.8	E56785
Do.	do.	T	5/8-inch by 28-mesh (W)		2,010	2,270	2,470	8.7	2.9	E56786
Sahara No. 16	No. 5	T	6-inch lump		2,300	2,400	2,840	6.0	.8	B81272
Do.	do.	T	6- by 1-1/2-inch		2,180	2,330	2,850	7.4	.8	B81273
Do.	do.	T	1-1/2-inch by 0		2,210	2,310	2,710	9.3	1.2	B81274
Wasson										
Wasson No. 1	do.	T	6-inch lump		2,030	2,080	2,310	7.4	1.8	D31513
Do.	do.	T	6- by 3-inch		1,970	2,050	2,310	7.4	2.0	D31514
Do.	do.	T	3- by 2-inch		2,030	2,080	2,310	7.7	2.2	D31515
Do.	do.	T	2- by 1-1/2-inch		2,030	2,050	2,310	8.9	2.6	D31516
Do.	do.	T	1-1/2- by 5/16-inch		1,970	2,040	2,340	9.8	2.5	D31517
Do.	do.	T	3/4- by 5/16-inch		2,000	2,050	2,340	10.9	2.9	D31518
Do.	do.	T	5/16-inch by 0		1,900	1,940	2,100	14.3	3.4	D31519
Sangamon County										
Auburn										
Panther Creek	No. 6	M		3	1,940	2,010	2,200	11.7	4.6	81319 to 81321
Cantrall										
Cantrall	No. 5	T	4-inch lump		1,930	1,970	2,200	12.4	4.1	E29328
Do.	do.	T	1-3/4- by 3/4-inch		1,950	2,000	2,180	15.7	5.0	E29329
Do.	do.	T	3/4-inch by 10-mesh		1,930	1,980	2,170	14.3	4.5	E29330
Do.	do.	T	10-mesh by 0		1,910	1,940	2,130	12.9	4.4	E29331
Do.	do.	T	1-1/4-inch by 0		1,830	1,900	2,090	15.1	4.5	E29332
Springfield										
Brewerton No. 81	do.	M		3	1,900	1,950	2,250	11.2	4.4	A90785 to A90787
Citizens "A"	do.	T	6-inch lump		1,870	1,920	2,160	13.7	4.8	B36193
Do.	do.	T	6- by 3-inch		1,900	1,930	2,180	13.7	4.7	B36194
Do.	do.	T	3- by 1-1/4-inch		1,900	1,940	2,310	13.1	5.0	B36195
Do.	do.	T	1-1/4-inch by 0		1,880	1,920	2,210	14.8	4.8	B36196
Clear Lake	do.	M		2	1,880	1,900	2,000	11.9	4.4	81457 and 81458
Empire No. 1	do.	M		3	1,770	1,910	2,050	12.3	4.4	81448 to 81450

1/ M, mine sample; T, tipple sample 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Sangamon County (Con.)										
Springfield										
Lincoln Park No. 2	No. 5	T	6-inch lump		1,890	1,930	2,150	14.0	4.9	B36229
Do.	do.	T	6- by 3-inch		1,910	1,940	2,160	14.9	4.9	B36230
Do.	do.	T	3- by 1-1/4-inch		1,920	1,970	2,310	15.4	4.9	B36231
Do.	do.	T	1-1/4- by 3/4-inch		1,920	1,970	2,180	16.4	4.9	B36232
New North No. 5	do.	T	6-inch lump		1,890	1,960	2,200	12.5	4.7	B36089
Do.	do.	T	6- by 3-inch		1,900	1,960	2,210	14.0	4.6	B36090
Do.	do.	T	3- by 1-1/4-inch		1,930	1,980	2,230	14.3	5.1	B36091
Do.	do.	T	1- by 1/2-inch		1,940	1,990	2,330	14.5	4.7	B36092
Do.	do.	T	1-1/4-inch by 0		1,920	1,970	2,130	15.1	4.6	B36093
Panther Creek No. 15	do.	T	3-inch lump		1,940	1,970	2,210	13.0	4.4	D35617
Do.	do.	T	3- by 1-1/2-inch		1,940	1,970	2,210	12.7	4.7	D35618
Do.	do.	T	1-1/2-inch by 0		1,900	1,940	2,230	14.0	4.7	D35619
Peerless No. 59	do.	T	6-inch lump		1,880	1,930	2,130	13.6	4.6	B36251
Do.	do.	T	6- by 3-inch		1,930	1,980	2,150	13.6	4.5	B36252
Do.	do.	T	3- by 1-1/4-inch		1,940	1,980	2,380	15.6	4.5	B36253
Do.	do.	T	2- by 1-1/4-inch		1,990	2,000	2,440	15.0	4.6	B36254
Do.	do.	T	1-1/4-inch by 0		1,950	1,990	2,260	17.4	4.3	B36255
Sangamon County	do.	M		3	1,730	1,860	1,970	11.5	4.5	81440 to 81442
Spring Creek	do.	M		3	1,780	1,840	1,920	12.0	4.6	81452 to 81454
West End No. 4	do.	T	6-inch lump		1,900	1,950	2,180	12.7	4.8	B36197
Do.	do.	T	6- by 3-inch		1,910	1,930	2,430	13.7	4.6	B36198
Do.	do.	T	6- by 1-1/4-inch		1,900	1,950	2,160	14.0	5.2	B36199
Do.	do.	T	1-1/4-inch by 0		1,920	1,950	2,200	15.7	5.1	B36200
Woodside No. 53	do.	T	6-inch lump		1,870	1,920	2,260	14.1	4.9	B36345
Do.	do.	T	6- by 3-inch		1,880	1,940	2,480	14.7	4.7	B36346
Do.	do.	T	3- by 2-inch		1,910	1,980	2,590	15.7	4.8	B36347
Do.	do.	T	2- by 1-1/4-inch		1,940	1,990	2,210	17.3	4.9	B36348
Do.	do.	T	1-1/4-inch by 0		1,890	1,930	2,270	16.2	4.7	B36349
Schuyler County										
Rushville										
Schuyler	do.	T	6-inch lump		1,940	2,010	2,140	14.4	5.9	C33166
Do.	do.	T	6- by 2-inch		1,950	2,030	2,310	15.0	5.1	C33167
Do.	do.	T	2- by 1-1/4-inch		2,020	2,130	2,410	17.5	4.1	C33168
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,080	2,310	16.1	4.2	C33169
Shelby County										
Moweaqua										
Moweaqua	do.	M		3	1,710	1,840	1,920	12.2	4.2	81311 to 81313
Stark County										
Wyoming										
McDaniel	No. 6	M		1	2,000	2,050	2,280	12.7	4.8	A86461
Kingen	do.	M		2	1,980	2,040	2,240	12.5	4.7	A86462 and A86463

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Vermilion County										
Catlin										
Grape Creek No. 2	do.	M		3	2,010	2,060	2,110	10.5	2.7	84222 to 84224
Westfield No. 24	do.	T	6-inch lump		2,030	2,090	2,410	9.8	2.5	B40887
Do.	do.	T	6- by 2-inch (W)		2,230	2,270	2,580	10.4	1.5	B40888
Do.	do.	T	1-1/4-inch by 0		2,050	2,120	2,370	15.0	2.3	B40889
Do.	do.	T	1-1/4-inch by 28-mesh (W)		2,160	2,180	2,450	11.3	1.7	B40890
Danville										
Electric No. 1	No. 7	M		3	1,960	2,040	2,080	11.1	3.4	84226 to 84228
Grape Creek	do.	T	4- by 1-1/2-inch		2,000	2,050	2,390	11.1	3.6	B55493
Do.	do.	T	1-1/4-inch by 0		2,030	2,090	2,370	14.8	3.5	B55492
M. & B.	do.	M		3	1,970	2,030	2,420	11.0	3.3	A90627 to A90629
V Day	No. 6	T	7-inch lump		2,130	2,170	2,470	7.9	2.9	E63261
Do.	do.	T	7- by 2-inch (W)		2,140	2,190	2,490	8.5	2.7	E63262
Do.	do.	T	2- by 1-1/4-inch (W)		2,130	2,190	2,460	9.4	2.8	E63263
Do.	do.	T	1-1/4- by 1/4-inch		2,120	2,180	2,470	10.2	3.0	E63264
Do.	do.	T	1/4-inch by 0		1,950	2,100	2,470	17.9	3.7	E63265
Hillery										
Harmattan	No. 7	T	6- by 3-inch (W)		2,100	2,130	2,340	7.8	2.5	D48049
Do.	do.	T	2- by 1-1/4-inch (W)		2,000	2,100	2,470	9.3	2.8	D48050
Do.	do.	T	1-1/4-inch by 0 (W)		2,030	2,130	2,310	9.4	2.9	D48051
Do.	do.	T	3/4-inch by 0 (W)		2,050	2,130	2,310	8.5	2.9	D48052
Oakwood										
Oakwood	do.	T	4-inch lump		1,920	2,000	2,210	11.4	3.8	B45319
Do.	do.	T	4- by 2-inch		1,980	2,000	2,340	12.1	4.0	B45320
Do.	do.	T	2- by 1-1/2-inch		1,990	2,020	2,250	11.7	3.9	B45321
Do.	do.	T	1-1/2- by 1-inch		2,000	2,030	2,440	12.6	3.8	B45322
Do.	do.	T	1-inch by 16-mesh		2,000	2,030	2,290	13.7	3.9	B45323
Old Vermilion	do.	T	6-inch lump		2,000	2,040	2,390	12.5	4.4	B45282
Do.	do.	T	6- by 1-1/4-inch		2,000	2,040	2,390	11.8	4.0	B45283
Do.	do.	T	6- by 4-inch		2,020	2,090	2,520	10.3	3.4	B45284
Do.	do.	T	4- by 2-inch		1,990	2,070	2,360	12.8	4.1	B45285
Do.	do.	T	1-1/4-inch by 0		1,980	2,050	2,340	16.3	5.0	B45286
Tilton										
Tilton	do.	T	6-inch lump		2,000	2,040	2,370	12.6	3.6	B45231
Do.	do.	T	6-inch by 0		1,990	2,020	2,340	10.6	3.4	B45232
Washington County										
Centralia (Marion County)										
Centralia No. 5	No. 6	T	6-inch lump		1,950	1,990	2,190	12.9	4.0	B38560
Do.	do.	T	6- by 3-inch		1,980	2,010	2,200	13.0	4.1	B38561
Do.	do.	T	3- by 1-1/4-inch		1,960	2,010	2,190	15.1	4.3	B38562
Do.	do.	T	1-1/4-inch by 0		1,920	1,970	2,180	15.2	4.2	B38563
Lenzburg (St. Clair County)										
Dormstadt	do.	M		3	2,030	2,120	2,450	12.6	4.1	B19203 to B19205
Marissa (St. Clair County)										
Dormstadt No. 1	do.	M		3	2,050	2,080	2,380	13.0	4.0	D48606 to D48608
Nashville										
Nashville	do.	M		3	1,850	2,070	2,250	13.5	4.8	80680 to 80682
White County										
Norris City										
White County No. 1	do.	M		3	1,970	2,060	2,290	9.7	3.1	80594 to 80596
Will County										
Braidwood										
Braidwood	No. 2	T	5-inch lump		1,910	1,940	2,160	4.7	2.3	E62548
Do.	do.	T	5- by 3-inch		1,910	1,940	2,130	5.9	3.3	E62549
Do.	do.	T	3- by 2-inch		1,960	2,030	2,200	6.4	3.0	E62550

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Will County (Con.)										
Braidwood										
Braidwood	No. 2	T	2- by 1-inch		1,940	2,010	2,250	8.3	3.5	E62551
Do.	do.	T	1-1/4-inch by 0		1,930	2,050	2,310	16.0	3.9	E62552
Do.	do.	T	1- by 1/4-inch (W)		1,940	1,970	2,140	9.7	3.5	E62553
Do.	do.	T	1-inch by 5-mm. (W)		1,940	1,980	2,210	12.5	4.1	E62554
Wilmington										
Northern Illinois Coal Corp. No. 10	do.	M		3	2,000	2,050	2,110	6.0	1.9	A52979 to A52981
Williamson County										
Cambria										
Plumlee	No. 6	T	1-1/2-inch lump		2,060	2,120	2,470	12.8	3.5	B80022
Do.	do.	T	1-1/2- by 1-inch		2,100	2,190	2,520	11.8	2.8	B80023
Do.	do.	T	1-inch by 0		2,130	2,210	2,490	14.7	2.7	B80024
Pure Coal	do.	T	4-inch lump		2,100	2,180	2,440	9.7	3.1	E27789
Do.	do.	T	4- by 2-inch		2,030	2,120	2,420	10.3	3.4	E27790
Do.	do.	T	1-1/4- by 7/8-inch (W)		2,040	2,240	2,500	10.3	3.0	E27791
Do.	do.	T	7/8- by 1/4-inch (W)		2,120	2,220	2,420	8.6	3.2	E27792
Do.	do.	T	1/4-inch by 10-mesh (W)		2,190	2,240	2,470	10.9	3.0	E27793
Do.	do.	T	2-inch by 0		2,080	2,140	2,360	10.8	3.3	E27794
Carriers Mills (Saline County)										
Blue Bird No. 7	No. 5	T	6-inch lump		1,930	2,050	2,310	9.7	2.5	E27784
Do.	do.	T	6- by 3-inch (W)		1,970	2,050	2,350	9.2	2.3	E27785
Do.	do.	T	3- by 1-1/2-inch (W)		1,940	2,050	2,350	8.9	2.2	E27786
Do.	do.	T	1-1/2- by 1/4-inch (W)		1,910	2,060	2,380	8.7	2.3	E27787
Do.	do.	T	1/4-inch by 10-mesh (W)		1,910	2,040	2,320	8.9	1.9	E27788
Carterville										
Forsythe-Carterville No. 1	No. 6	T	6-inch lump		2,160	2,430	2,600	7.5	1.4	B63826
Do.	do.	T	6- by 3-inch		2,260	2,470	2,630	6.9	1.2	B63827
Do.	do.	T	3- by 1-1/2-inch		2,250	2,470	2,620	7.7	1.3	B63828
Do.	do.	T	1-1/2-inch by 0		2,180	2,380	2,580	11.2	1.8	B63829
Do.	do.	T	1/4-inch by 0		2,160	2,400	2,590	13.4	1.9	B63830
Forsyth Williamson	No. 5	T	6- by 3-inch (W)		1,870	1,930	2,080	12.7	4.1	E57656
Do.	do.	T	3- by 1-1/4-inch (W)		1,950	2,010	2,410	11.4	3.4	E57657
Do.	do.	T	1-1/4-inch by 3/4-mm. (W)		1,970	2,030	2,390	11.2	3.0	E57658
McLaren	do.	T	6-inch lump		1,920	2,000	2,050	11.7	3.7	B65294
Do.	do.	T	6- by 3-inch		1,890	1,930	2,000	13.7	4.8	B65295
Do.	do.	T	3- by 2-inch		1,930	1,970	2,180	13.4	4.5	B65296
Do.	do.	T	2- by 1-1/2-inch		1,940	1,970	2,180	13.2	4.0	B65297
Do.	do.	T	1-1/2-inch by 0		1,920	1,970	2,120	14.8	4.0	B65298
Prosperity	No. 6	T	1-1/4-inch lump		2,570	2,680	2,870	6.8	.5	B65451
Do.	do.	T	1-1/4- by 3/4-inch		2,380	2,570	2,870	10.5	.5	B65452
Do.	do.	T	3/4- by 1/4-inch		2,380	2,570	2,870	10.1	.5	B65453
Do.	do.	T	1/4-inch by 0		2,260	2,350	2,570	16.2	.6	B65454
Do.	do.	T	1-1/4-inch by 0		2,350	2,460	2,670	12.3	.5	B65455

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Harrisburg (Saline County)										
Black No. 2	do.	T	Run-of-mine		1,970	2,150	2,420	14.7	4.2	D31505
Blue Bird No. 8	No. 5	T	6- by 3/4-inch (W)		1,920	2,030	2,330	9.0	2.5	D31506
Do.	do.	T	3/4-inch by 2-mm. (W)		1,940	2,050	2,280	9.7	2.2	D31507
Herrin										
Buckhorn	No. 6	T	6-inch lump		2,170	2,410	2,570	8.9	1.4	B37969
Do.	do.	T	6- by 3-inch		2,370	2,450	2,630	8.2	1.3	B37970
Do.	do.	T	3- by 2-inch		2,390	2,500	2,650	10.3	1.3	B37971
Do.	do.	T	1-1/2- by 1/8-inch		2,290	2,420	2,580	11.5	1.3	B37972
Do.	do.	T	1/8-inch by 0		2,130	2,210	2,450	12.0	1.4	B37973
Do.	No. 5	T	1-1/2- by 3/4-inch (W)		1,990	2,050	2,530	10.8	3.3	C48601
Do.	do.	T	3/4-inch by 10-mesh (W)		2,030	2,080	2,420	10.4	3.3	C48602
Do.	do.	T	10-mesh by 0		2,000	2,040	2,150	16.0	3.5	C48603
Freeman	No. 6	T	7-inch lump		2,190	2,260	2,520	10.0	1.1	C48761
Do.	do.	T	7- by 3-inch		2,420	2,520	2,700	8.6	.9	C48762
Do.	do.	T	3- by 2-inch		2,420	2,580	2,780	10.1	1.0	C48763
Do.	do.	T	2- by 1-1/2-inch		2,420	2,560	2,670	8.0	1.0	C48764
Do.	do.	T	1-1/2-inch by 0		2,150	2,260	2,570	10.0	1.2	C48765
Freeman Spur	do.	T	7-inch lump		2,490	2,600	2,800	9.5	1.0	C48667
Do.	do.	T	7- by 3-inch		2,490	2,570	2,740	7.6	1.0	C48668
Do.	do.	T	3- by 2-inch		2,440	2,530	2,690	9.0	1.0	C48669
Do.	do.	T	3/4-inch by 0		2,180	2,330	2,530	11.2	1.1	C48670
New Monarch No. 7	do.	T	6-inch lump		2,370	2,510	2,760	9.2	1.2	B38098
Do.	do.	T	6- by 3-inch		2,330	2,470	2,650	8.1	1.2	B38099
Do.	do.	T	3- by 2-inch		2,320	2,460	2,650	8.5	1.3	B38100
Do.	do.	T	1-1/2-inch by 0		2,140	2,370	2,530	9.8	1.3	B38101
Do.	do.	T	do.		2,080	2,320	2,490	9.8	1.3	B38102
New Morgan	do.	T	6- by 1-1/4-inch (W)		2,050	2,130	2,420	8.3	2.3	D32406
Do.	do.	T	3/4- by 3/16-inch (W)		1,970	2,100	2,360	8.1	2.2	D32407
Do.	do.	T	1-1/4-inch by 28-mesh (W)		2,030	2,130	2,370	7.4	2.3	D32408
Sunnyside	do.	M		3	2,040	2,150	2,300	10.6	2.4	80651 to 80653
Johnson City										
Big Muddy No. 26	do.	M		3	2,010	2,290	2,370	9.7	2.7	80598 to 80600
Franco No. 1	do.	M		3	2,180	2,350	2,510	9.1	1.4	A38989 to A38991
Do.	do.	T	6-inch lump		2,270	2,420	2,580	9.2	1.2	A50683
Do.	do.	T	1-1/4-inch by 0		2,040	2,130	2,290	10.8	1.7	A50762
Do.	do.	T	2- by 1-1/4-inch		2,090	2,150	2,430	8.0	1.4	A50777
Do.	do.	T	6- by 3-inch		2,090	2,200	2,450	8.6	1.4	A50793
Do.	do.	T	3- by 2-inch		2,070	2,260	2,400	7.7	1.8	A50794
Freeburn	do.	T	6- by 3-inch (W)		2,440	2,580	2,680	9.0	1.1	D98477
Do.	do.	T	3- by 1-1/2-inch (W)		2,420	2,520	2,620	8.3	1.1	D98478
Do.	do.	T	1-1/2-inch by 10-mesh (W)		2,100	2,420	2,570	8.1	1.0	D98479
Do.	do.	T	10-mesh by 0 (W)		2,190	2,320	2,440	17.3	1.4	D98480
Freeburn No. 3	do.	T	6- by 3-inch (W)		2,120	2,190	2,540	8.3	1.2	E57034
Do.	do.	T	3- by 2-inch (W)		2,110	2,220	2,590	8.3	1.3	E57035
Do.	do.	T	2- by 7/16-inch (W)		2,120	2,300	2,570	7.3	1.1	E57036
Do.	do.	T	7/16-inch by 60-mesh		2,140	2,180	2,570	7.5	1.1	E57037
Do.	do.	T	60-mesh by 0		2,080	2,210	2,480	18.0	1.6	E57038
Freeburn No. 4	do.	T	6- by 3-inch (W)		2,050	2,100	2,360	13.2	3.4	D98481
Do.	do.	T	3- by 1-1/2-inch (W)		2,080	2,110	2,380	10.2	3.1	D98482
Do.	do.	T	1-1/2-inch by 10-mesh		2,080	2,140	2,380	9.1	2.8	D98483
Do.	do.	T	10-mesh by 0		1,970	2,070	2,280	20.8	3.4	D98484
Do.	do.	T	1-1/2-inch by 0		2,000	2,050	2,210	16.8	3.6	D98485
Lake Creek	do.	M		3	2,040	2,340	2,470	9.1	1.3	80602 to 80604
Do.	do.	T	6-inch lump		2,360	2,470	2,620	12.1	1.5	D32023
Do.	do.	T	6- by 3-inch		2,180	2,370	2,530	9.5	1.5	D32024
Do.	do.	T	3- by 1-1/2-inch		2,230	2,390	2,550	10.8	1.6	D32025
Do.	do.	T	1-1/2- by 3/4-inch		2,080	2,150	2,380	11.7	2.1	D32026
Do.	do.	T	3/4-inch by 10-mm. (W)		2,110	2,200	2,450	8.4	1.7	D32027
Do.	do.	T	3/8-inch by 0		2,130	2,180	2,420	11.5	1.9	D32028
McClintock	do.	M		3	1,960	2,150	2,290	11.5	3.3	80610 to 80612

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
ILLINOIS (Con.)										
Williamson County (Con.)										
Johnson City										
Old Ben No. 18	No. 6	T	6-inch lump		2,100	2,360	2,660	9.7	1.3	A78369
Do.	do.	T	6- by 3-inch		2,360	2,530	2,720	8.5	1.3	A78370
Do.	do.	T	3- by 2-inch		2,270	2,450	2,700	8.0	1.3	A78371
Do.	do.	T	2- by 1-1/2-inch		2,300	2,450	2,650	8.7	1.4	A78372
Do.	do.	T	1-1/2-inch by 0		2,090	2,180	2,510	10.9	1.5	A78373
Do.	do.	T	2-inch by 0		2,010	2,150	2,490	9.4	1.5	A78374
Marion										
Blinkley	do.	M		1	1,960	2,190	2,280	10.9	4.1	80626
Delta	do.	T	7- by 3-inch (W)		1,970	2,100	2,400	11.0	3.2	D32294
Do.	do.	T	3- by 2-inch (W)		1,970	2,100	2,310	9.8	3.0	D32295
Do.	do.	T	2- by 1-inch (W)		2,000	2,210	2,380	9.6	3.0	D32296
Do.	do.	T	1-inch by 10-mesh (W)		1,970	2,150	2,380	9.4	2.8	D32297
Do.	do.	T	10-mesh by 0 (W)		1,920	1,960	2,210	9.3	2.6	D32298
Orchard	do.	T	Run-of-mine		2,000	2,060	2,190	12.7	3.4	D64369
Slogo	do.	M		3	2,020	2,160	2,350	10.3	3.0	80614 to 80616
Stroud	do.	M		1	1,930	2,280	2,390	9.8	3.6	80625
Wallace	do.	M		3	1,940	2,160	2,360	12.5	3.8	80671 to 80673
Do.	do.	T	8-inch lump		1,960	2,010	2,320	12.5	4.0	B38179
Do.	do.	T	8- by 3-inch		2,020	2,110	2,590	10.2	3.2	B38180
Do.	do.	T	3- by 2-inch		2,000	2,080	2,460	11.9	3.6	B38181
Do.	do.	T	2-inch by 0		1,990	2,050	2,360	15.0	3.9	B38182
Paulton										
Franco No. 3	do.	T	6-inch lump		2,020	2,130	2,290	13.1	1.6	A50641
Do.	do.	T	6- by 3-inch		2,080	2,190	2,410	10.7	1.4	A50596
Do.	do.	T	1-1/4-inch by 0		2,050	2,260	2,320	10.2	1.5	A50661
Do.	do.	T	do.		2,040	2,120	2,380	13.4	1.8	A50684
Pittsburg										
Crystal Block	do.	T	Run-of-mine		2,050	2,080	2,340	13.8	2.5	D40892
Stonefort										
Carmac	No. 5	T	6- by 3-inch (W)		1,960	2,020	2,340	9.6	2.5	E27774
Do.	do.	T	6- by 1-1/2-inch (W)		1,970	2,060	2,340	8.8	2.2	E27775
Do.	do.	T	3- by 2-inch (W)		1,990	2,050	2,360	9.6	2.3	E27776
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,920	2,030	2,350	9.5	2.3	E27777
Do.	do.	T	3- by 1-inch (W)		1,920	2,030	2,360	9.7	2.3	E27778
Do.	do.	T	1-1/2- by 1/4-inch (W)		1,920	2,060	2,360	8.7	2.2	E27780
Do.	do.	T	3/4- by 1/4-inch (W)		1,940	2,050	2,340	9.3	2.1	E27779
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,960	2,060	2,360	8.8	2.1	E27781
Do.	do.	T	3/4-inch by 10-mesh (W)		1,880	2,020	2,330	8.9	2.2	E27782
Do.	do.	T	1/4-inch by 0 (W)		1,930	2,030	2,330	9.2	2.2	E27783
Woodford County										
Minonk										
Minonk	No. 2	T	4-inch lump		2,070	2,100	2,370	6.7	1.7	B35313
Do.	do.	T	4- by 2-inch		2,030	2,080	2,350	6.9	1.8	B35314
Do.	do.	T	2- by 1-1/2-inch		2,050	2,080	2,280	8.6	1.9	B35315

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Do.	do.	T	1-1/2-inch by 0		2,070	2,120	2,490	16.6	1.9	B35316
Sutton	do.	M		3	2,100	2,200	2,410	6.2	1.0	A90282 to A90284

INDIANA

Clay County										
Centerpoint										
Big Bend	Brazil Block	T	6-inch lump		2,580	2,650	2,890	5.5	.5	B46386
Do.	do.	T	6- by 4-inch		2,580	2,740	2,910	6.1	.5	B46387
Do.	do.	T	4- by 2-inch		2,580	2,660	2,890	7.2	.5	B46388
Do.	do.	T	2- by 3/16-inch		2,390	2,570	2,770	9.5	1.2	B46389
Do.	do.	T	4-inch lump		2,910+	-	-	4.5	.6	C33937
Do.	do.	T	4- by 3/4-inch		2,750	2,790	2,890	8.0	.8	C33938
Do.	do.	T	3/4- by 3/16-inch		2,500	2,560	2,700	12.7	1.5	C33939
Do.	do.	T	3/16-inch by 0		2,420	2,470	2,650	13.6	1.8	C33940
Birch Creek	do.	T	4-1/4-inch lump		2,520	2,620	2,770	5.4	.8	C34109
Do.	do.	T	4-1/4- by 1-1/2-inch		2,760	2,840	2,910+	9.9	.7	C34110
Do.	do.	T	1-1/2- by 3/8-inch		2,730	2,810	2,910+	14.6	.8	C34111
Do.	do.	T	3/8-inch by 0		2,640	2,730	2,890	23.5	1.0	C34112
Rockhill	do.	T	6-inch lump		2,510	2,560	2,710	5.7	1.3	B40944
Do.	do.	T	6- by 1-1/2-inch		2,500	2,550	2,720	5.8	1.2	B40945
Do.	do.	T	1-1/2-inch by 0		2,070	2,110	2,480	9.0	2.2	B40946
Clay City										
Commodore	do.	T	6-inch lump		2,540	2,680	2,860	3.3	.7	B46484
Do.	do.	T	6- by 2-inch		2,480	2,650	2,820	5.1	.9	B46485
Do.	do.	T	2- by 3/8-inch		2,420	2,570	2,750	7.4	1.2	B46486
Do.	do.	T	3/8-inch by 0		2,050	2,450	2,660	10.1	1.5	B46487
Dixon Block	do.	T	6-inch lump		2,690	2,750	2,910+	4.3	.8	B46586
Do.	do.	T	6- by 2-1/2-inch		2,690	2,770	2,910+	4.7	.7	B46587
Do.	do.	T	2-1/2-inch by 0		2,690	2,760	2,910+	7.5	.8	B46588
Coalmont										
Oak Leaf	No. 5	T	8- by 1-1/2-inch		2,010	2,270	2,440	10.8	3.8	B45557
Do.	do.	T	6- by 1-1/2-inch		2,010	2,270	2,440	10.2	3.7	B45558
Do.	do.	T	1-1/2-inch by 0		1,990	2,210	2,380	10.3	4.0	B45559
Jasonville (Greene County)										
Gordon Coal Company	No. 4	T	2-inch lump		2,630	2,690	2,830	9.5	1.7	B50990
Do.	do.	T	2-inch by 0		2,520	2,640	2,800	14.4	2.0	B50991
Staunton										
Chinook	No. 3	T	6- by 4-inch (W)		1,970	2,020	2,060	11.1	7.1	B65268
Do.	do.	T	4- by 2-inch (W)		1,970	2,030	2,360	10.7	5.1	B65269
Do.	do.	T	2- by 1-1/4-inch (W)		2,000	2,160	2,440	10.8	4.7	B65270
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,070	2,230	2,470	9.8	4.3	B65271
Do.	do.	T	3/4- by 3/8-inch (W)		2,060	2,210	2,470	9.6	4.4	B65272
Do.	do.	T	3/8-inch by 0 (W)		1,970	2,220	2,470	10.5	4.3	B65273
Do.	do.	T	1-1/4-inch by 0 (W)		2,020	2,230	2,460	10.2	4.4	B65274
Do.	do.	T	3/4-inch by 0 (W)		2,000	2,110	2,410	9.2	4.4	B65275
Lone Star	do.	T	6-inch lump		2,000	2,060	2,560	9.2	5.1	B45482
Do.	do.	T	6-inch by 0		1,960	2,090	2,610	11.2	4.7	B45483
Do.	do.	T	4-inch lump		1,980	2,020	2,440	8.9	4.8	B46731
Do.	do.	T	4- by 1-1/4-inch		1,890	2,040	2,480	12.5	5.2	B46732
Do.	do.	T	1-1/4-inch by 0		1,950	2,040	2,320	18.7	5.3	B46733
Staunton	Brazil Block	T	6-inch lump		2,270	2,420	2,550	6.2	1.8	B40755
Do.	do.	T	6- by 2-inch		2,410	2,540	2,720	6.9	1.5	B40756
Do.	do.	T	2- by 3/16-inch		2,030	2,240	2,440	9.7	2.3	B40757
Daviess County										
Plainville										
Maid Marion	-	T	6- by 3-inch		1,940	2,110	2,490	6.2	2.8	D81753
Do.	-	T	1-1/4-inch by 0		1,940	2,200	2,510	7.6	2.8	D81754
Do.	-	T	1-1/2- by 3/4-inch		1,940	2,300	2,520	7.2	2.5	D81755

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
INDIANA (Con.)										
Daviess County (Con.)										
Plainville										
Maid Marion	-	T	10-mesh by 0		2,040	2,150	2,440	12.7	3.4	D81756
Fountain County										
Kingman										
Morgan-Kingman	Minshall	T	4-inch lump		1,950	2,100	2,470	7.7	2.7	E62555
Do.	do.	T	4- by 2-1/2-inch		1,940	2,010	2,400	8.7	3.1	E62556
Do.	do.	T	2-1/2- by 1-1/4-inch		1,970	2,070	2,440	9.7	3.2	E62557
Do.	do.	T	1-1/4- by 3/16-inch		1,920	2,010	2,420	11.2	4.3	E62558
Do.	do.	T	3/16-inch by 0		1,900	2,110	2,430	17.4	4.9	E62559
Gibson County										
Oakland City										
Liberty	No. 5	M		3	1,950	2,100	2,140	11.6	4.6	90977 to 90979
Princeton										
Kings	do.	T	6-inch lump		2,020	2,100	2,360	9.3	2.8	B52645
Do.	do.	T	6- by 3-inch		1,960	2,030	2,350	7.8	2.7	B52646
Do.	do.	T	3- by 2-inch		1,910	2,030	2,350	7.4	2.9	B52647
Do.	do.	T	2- by 1-1/4-inch		1,980	2,010	2,350	8.1	3.2	B52648
Do.	do.	T	1-1/4- by 1/4-inch		1,960	2,010	2,320	8.4	2.7	B52649
Do.	do.	T	1/4-inch by 10-mesh		1,910	2,000	2,250	11.5	3.5	B52650
Do.	do.	T	10-mesh by 0		1,920	1,950	2,010	14.0	4.2	B52651
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,010	2,330	7.9	3.2	B52652
Sommerville										
Briggs No. 1	do.	T	2-1/2-inch lump		2,000	2,040	2,320	10.8	4.8	B95052
Do.	do.	T	2-1/2- by 1-1/4-inch		1,980	2,050	2,320	10.6	4.3	B95053
Do.	do.	T	1-1/4-inch by 0		2,010	2,040	2,290	11.7	3.9	B95054
Saxton No. 1	do.	T	8- by 4-inch (W)		1,980	2,100	2,380	10.3	3.0	E32971
Do.	do.	T	4- by 1-inch (W)		1,920	2,030	2,340	10.8	4.0	E32972
Do.	do.	T	1- by 1/4-inch (W)		1,930	2,020	2,340	12.0	4.3	E32973
Do.	do.	T	1/4-inch by 0		1,910	1,980	2,100	17.0	4.5	E32974
Greene County										
Dugger (Sullivan County)										
New Hope No. 5	do.	T	6- by 1-1/4-inch (W)		2,070	2,210	2,520	10.7	3.9	B51122
Do.	do.	T	1-1/4-inch by 0 (W)		2,080	2,240	2,510	10.4	4.0	B51123
New Hope No. 6	No. 6	T	6- by 4-inch		1,970	2,090	2,470	8.0	2.5	B51059
Do.	do.	T	4- by 1-1/2-inch (W)		2,000	2,080	2,470	7.7	2.3	B51060
Do.	do.	T	1-1/2-inch by 0 (W)		2,000	2,080	2,450	8.6	2.3	B51061
Robin Hood	do.	T	6-inch lump		2,020	2,140	2,310	5.0	1.7	D81748
Do.	do.	T	6- by 4-inch (W)		2,050	2,180	2,450	7.5	1.8	D81749
Do.	do.	T	4- by 1-1/2-inch (W)		2,030	2,130	2,380	8.2	2.0	D81750
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,000	2,100	2,380	9.1	2.2	D81751
Do.	do.	T	3/4-inch by 0 (W)		2,000	2,100	2,380	9.2	2.1	D81752
Jasonville										
Lone Tree	No. 3	T	6-inch lump		2,000	2,260	2,580	5.4	2.5	B51599

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Do.	do.	T	6- by 4-inch		2,010	2,220	2,660	5.9	3.3	B51600
Do.	do.	T	4- by 1-1/4-inch		2,010	2,260	2,660	7.1	3.6	B51601
Do.	do.	T	1-1/4-inch by 0		1,910	2,260	2,590	11.7	4.6	B51602
Queen No. 4	No. 4	T	6- by 1-1/4-inch		2,670	2,800	2,910+	10.2	1.0	B51788
Do.	do.	T	1-1/4-inch by 0		2,330	2,490	2,770	14.0	1.6	B51789
Vigo No. 6	do.	M		5	2,100	2,210	2,260	8.4	1.9	82129 to 82133
Linton										
Airline No. 32	No. 5	T	7- by 4-inch (W)		2,110	2,440	2,560	8.5	3.1	E31602
Do.	do.	T	4- by 1-1/2-inch (W)		1,990	2,140	2,470	8.4	3.5	E31603
Do.	do.	T	1-1/2- by 1-inch (W)		1,870	2,130	2,390	8.8	3.4	E31604
Do.	do.	T	1-inch by 28-mesh (W)		1,970	2,080	2,360	8.7	3.3	E31605
Comet	No. 4	T	4-inch lump		2,680	2,750	2,870	8.1	1.0	D38050
Do.	do.	T	4- by 2-inch		2,620	2,700	2,870	7.9	1.1	D38051
Do.	do.	T	2- by 1-1/4-inch		2,570	2,650	2,760	8.0	1.2	D38052
Do.	do.	T	1-1/4- by 3/8-inch		2,420	2,520	2,760	9.3	1.4	D38053
Do.	do.	T	3/8-inch by 0		1,990	2,050	2,340	15.4	2.4	D38054
Friar Tuck	No. 5	T	6- by 4-inch		2,060	2,350	2,540	12.2	3.3	B50751
Do.	do.	T	4- by 2-inch (W)		2,050	2,410	2,630	13.4	3.6	B50752
Do.	do.	T	2- by 1-1/4-inch		2,050	2,420	2,650	13.4	3.5	B50753
Do.	do.	T	1-1/4-inch by 0		2,050	2,440	2,700	13.0	3.2	B50754
Hi-Grade	No. 4	T	1-1/2-inch lump		2,040	2,140	2,490	12.8	3.2	B68692
Do.	do.	T	1-1/2-inch by 0		2,080	2,170	2,490	11.0	2.7	B68693
Do.	do.	T	1-1/4- by 3/4-inch		2,090	2,170	2,490	11.5	2.8	B68694
Do.	do.	T	3/4-inch by 0		2,030	2,140	2,480	12.3	3.4	B68695
Hi-Grade No. 4	do.	T	3-inch lump		1,790	2,320	2,570	10.2	2.3	B51876
Do.	do.	T	3- by 1-1/2-inch		1,820	2,220	2,470	10.1	2.6	B51877
Do.	do.	T	1-1/2- by 3/8-inch		1,900	2,100	2,460	12.0	3.3	B51878
Little Daisy	do.	T	Run-of-mine		2,490	2,660	2,840	10.1	1.6	B51277
Do.	do.	T	1-1/4-inch by 0		2,230	2,310	2,580	10.3	2.0	B51278
Morgan	No. 6	T	6-inch lump		2,060	2,140	2,720	7.2	2.1	B69003
Do.	do.	T	4- by 1-1/2-inch		2,030	2,120	2,630	9.0	2.2	B69004
Do.	do.	T	1-1/2-inch by 0		2,190	2,220	2,650	15.3	2.2	B69005
Richardson	No. 4	T	Run-of-mine		2,390	2,650	2,820	9.7	1.6	B51875
Sullivan No. 27	No. 7	T	8- by 4-inch		2,430	2,570	2,740	11.4	1.5	C34636
Do.	do.	T	2- by 1-1/2-inch (W)		2,420	2,520	2,730	10.4	1.3	C34637
Do.	do.	T	1-1/2-inch by 0		2,430	2,520	2,680	10.5	1.4	C34638
Do.	do.	T	3/4-inch by 0		2,440	2,500	2,680	10.2	1.5	C34639
Sycamore No. 26	No. 6	T	8- by 4-inch		1,940	2,010	2,270	9.4	3.1	C34382
Do.	do.	T	4- by 1-1/2-inch (W)		2,020	2,100	2,420	9.0	2.2	C34383
Do.	do.	T	2- by 1-1/2-inch		2,050	2,100	2,420	9.4	2.0	C34384
Do.	do.	T	1-1/2-inch by 0		2,060	2,130	2,440	10.3	2.0	C34385
Switz City										
Hoosier Queen	Semi-block	T	6-inch lump		2,010	2,320	2,490	7.4	2.8	B51479
Do.	do.	T	6- by 1-1/4-inch		2,000	2,360	2,500	8.4	3.2	B51480
Do.	do.	T	1-1/4- by 3/8-inch		2,010	2,350	2,420	9.9	3.1	B51481
Knox County										
Bicknell										
American No. 1	No. 5	T	1-1/2-inch lump (W)		1,990	2,100	2,370	8.8	4.0	B52067
Do.	do.	T	1-1/2-inch by 0		1,930	2,040	2,310	11.6	5.0	B52068
American No. 2	do.	T	3-inch lump		1,900	2,120	2,380	9.9	3.5	B52061
Do.	do.	T	3- by 2-inch (W)		1,890	2,100	2,360	8.2	3.9	B52062
Do.	do.	T	2- by 1-1/4-inch (W)		1,890	2,120	2,380	7.6	3.7	B52063
Do.	do.	T	1-1/4-inch lump (W)		1,890	2,050	2,340	9.2	4.1	B52064
Do.	do.	T	1-1/4-inch lump		2,020	2,040	2,380	11.3	4.9	B52065
Do.	do.	T	3/8-inch by 0		1,920	2,030	2,070	14.4	4.7	B52066
Linn	No. 6	T	6-inch lump		2,000	2,200	2,530	10.5	3.1	B52475
Do.	do.	T	6- by 4-1/2-inch		2,000	2,180	2,380	10.3	2.9	B52476
Do.	do.	T	4-1/2- by 3-inch		1,870	2,200	2,380	11.6	3.3	B52477
Do.	do.	T	3- by 1-1/2-inch		1,970	2,230	2,400	9.6	2.7	B52478

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
INDIANA (Con.)										
Knox County (Con.)										
Bicknell										
Linn	No. 6	T	1-1/2- by 7/8-inch		1,980	2,240	2,400	15.8	3.7	B52479
Do.	do.	T	7/8- by 3/8-inch		1,850	2,220	2,400	14.4	3.3	B52480
Do.	do.	T	3/8-inch by 0		1,850	2,150	2,360	21.7	3.9	B52481
Northside	do.	T	5-inch lump		2,020	2,230	2,480	10.7	2.5	B52295
Do.	do.	T	5- by 3-inch		2,020	2,230	2,480	10.3	2.6	B52296
Do.	do.	T	3- by 1-1/4-inch		2,000	2,190	2,420	14.1	3.2	B52297
Do.	do.	T	1-1/4-inch by 0		2,030	2,170	2,380	15.3	3.1	B52298
Panhandle No. 2	No. 5	T	8-inch lump		1,890	1,980	2,250	11.5	4.5	B51911
Do.	do.	T	8- by 4-inch		1,890	2,040	2,250	10.8	4.4	B51912
Do.	do.	T	4- by 1-1/2-inch		1,950	2,100	2,390	10.4	4.3	B51913
Do.	do.	T	1-1/2-inch by 0		1,970	2,030	2,300	12.9	4.9	B51914
Do.	No. 6	T	6-inch lump		2,020	2,230	2,420	12.0	3.2	C34822
Do.	do.	T	6-inch by 0		2,040	2,100	2,420	12.1	2.9	C34823
Shasta	do.	T	7- by 4-inch (W)		2,010	2,200	2,510	11.1	2.6	E32608
Do.	do.	T	4- by 3-inch (W)		2,080	2,170	2,420	10.2	2.5	E32609
Do.	do.	T	3- by 1-1/4-inch (W)		2,030	2,260	2,520	10.4	2.5	E32610
Do.	do.	T	1-1/4-inch by 0 (W)		2,030	2,130	2,540	11.2	2.3	E32611
Sunshine	do.	T	5-inch lump		2,130	2,300	2,570	9.8	2.4	B52184
Do.	do.	T	5- by 4-1/2-inch		2,120	2,350	2,590	11.7	2.7	B52185
Do.	do.	T	4-1/2- by 3-inch		2,110	2,410	2,680	11.3	2.5	B52186
Do.	do.	T	3- by 1-1/2-inch		1,950	2,330	2,460	11.2	2.7	B52187
Do.	do.	T	1-1/2- by 5/8-inch		1,950	2,350	2,460	13.1	2.6	B52188
Do.	do.	T	5/8-inch by 0		2,090	2,140	2,400	13.7	2.8	B52189
Bruceville										
Enoco	No. 5	T	7- by 4-inch (W)		2,030	2,080	2,420	9.0	3.3	D39007
Do.	do.	T	4- by 2-inch (W)		2,000	2,080	2,420	8.3	3.4	D39008
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,000	2,340	8.5	3.5	D39009
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,920	1,970	2,340	9.8	3.7	D39010
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,920	1,970	2,340	8.4	3.3	D39011
Do.	do.	T	3/4- by 3/16-inch (W)		1,900	1,940	2,340	9.3	3.6	D39012
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,000	2,050	2,310	8.9	3.7	D39013
Wheatland										
Standard No. 2	do.	T	1-1/2-inch lump		2,000	2,190	2,380	10.6	4.1	B52417
Do.	do.	T	1-1/2-inch by 0		2,020	2,100	2,380	12.8	4.6	B52418
Do.	do.	T	1-1/4-inch by 0 (W)		2,030	2,130	2,420	11.8	4.7	B52419
Owen County										
Coal City										
Old Brazil	Brazil Block	T	6-inch lump		2,020	2,100	2,600	7.9	3.9	B45681
Do.	do.	T	6- by 2-inch		2,000	2,090	2,580	9.6	4.2	B45682
Do.	do.	T	2- by 1/4-inch		1,980	2,080	2,490	13.1	4.7	B45683
Pike County										
Oakland City										
Ayrshire	No. 5	T	6- by 4-inch		2,070	2,420	2,540	7.0	1.9	E22994

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Do.	do.	T	4- by 2-inch		2,000	2,120	2,390	8.0	2.6	E22995
Do.	do.	T	1-1/2- by 3/8-inch		2,010	2,070	2,320	8.8	3.2	E22996
Do.	do.	T	3/8-inch by 0		1,980	2,020	2,200	12.7	3.5	E22997
Do.	do.	T	1-1/2-inch by 0		2,000	2,090	2,330	8.8	2.9	E22998
Do.	do.	T	6- by 1-1/2-inch		2,100	2,320	2,540	6.8	1.8	E22999
Do.	do.	T	1- by 3/8-inch		1,920	2,040	2,320	9.5	3.3	E23000
Do.	do.	T	1-1/2-inch by 28-mesh		1,970	2,160	2,400	9.3	3.0	E23001
Ayrshire No. 8	do.	T	7-inch lump		2,060	2,120	2,380	10.5	3.8	B52835
Do.	do.	T	7- by 4-inch		2,110	2,240	2,650	10.1	3.3	B52836
Do.	do.	T	4- by 2-inch		2,060	2,160	2,500	9.6	3.6	B52837
Do.	do.	T	2- by 1-1/4-inch		2,070	2,240	2,650	7.9	3.2	B52838
Do.	do.	T	1-1/4- by 1/8-inch		1,950	2,120	2,380	9.0	3.7	B52839
Do.	do.	T	1/8-inch by 0		1,950	2,040	2,320	11.9	4.0	B52840
Do.	do.	T	1-1/4-inch by 0		2,010	2,100	2,330	9.6	3.6	B52841
Big Muddy	do.	M		1	1,960	1,990	2,130	11.4	5.1	A458
Blackfoot	do.	T	1-1/2-inch lump		2,000	2,150	2,390	11.0	3.9	B53153
Do.	do.	T	1-1/2- by 3/4-inch		1,970	2,140	2,400	10.6	4.3	B53154
Do.	do.	T	3/4-inch by 0		1,980	2,140	2,400	10.8	4.2	B53155
Do.	do.	T	1-1/2-inch by 0		1,980	2,030	2,310	12.2	4.0	B53156
Brandy Hill	do.	M		1	1,960	2,130	2,240	13.3	4.4	A457
Enos	do.	T	7- by 4-inch (W)		1,990	2,070	2,360	9.8	3.5	E32975
Do.	do.	T	4- by 3-inch (W)		1,990	2,070	2,420	8.8	3.5	E32976
Do.	do.	T	3- by 2-inch (W)		1,960	2,070	2,420	8.4	3.5	E32977
Do.	do.	T	2- by 1-1/2-inch (W)		1,960	2,070	2,380	8.4	3.6	E32978
Do.	do.	T	1-1/2- by 1-inch (W)		2,000	2,070	2,370	8.7	3.7	E32979
Do.	do.	T	1- by 5/16-inch (W)		1,940	2,020	2,300	8.7	3.8	E32980
Do.	do.	T	5/16-inch by 10-mesh (W)		2,000	2,090	2,390	7.9	3.4	E32981
Do.	do.	T	10- by 28-mesh (W)		2,000	2,130	2,420	7.4	3.1	E32982
Do.	do.	T	1-1/2-inch by 10-mesh (W)		1,910	2,030	2,330	8.7	3.8	E32983
Kerwin	do.	T	4-inch lump		2,180	2,210	2,280	8.6	3.8	D48494
Do.	do.	T	4- by 2-inch (W)		2,000	2,150	2,420	9.7	3.7	D48495
Do.	do.	T	2- by 1-1/2-inch (W)		2,080	2,230	2,470	8.3	3.6	D48496
Do.	do.	T	1-1/2- by 3/8-inch (W)		1,940	2,040	2,310	8.7	3.9	D48497
Do.	do.	T	3/8-inch by 28-mesh (W)		2,000	2,100	2,380	9.0	3.4	D48498
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,000	2,080	2,360	8.8	4.0	D48499
Do.	do.	T	3/4-inch by 28-mesh (W)		2,000	2,080	2,310	8.6	3.8	D48500
Do.	do.	T	3/4- by 3/8-inch (W)		2,030	2,080	2,330	8.4	3.9	D48501
Paddle Foot	do.	M		1	1,920	2,000	2,170	11.1	5.2	A460
Turkey Knob	do.	M		1	1,880	2,010	2,240	14.2	5.1	A459
Winslow										
Barron Creek	do.	T	6- by 2-inch		2,560	2,690	2,800	6.3	1.1	E63741
Do.	do.	T	6- by 4-inch		2,420	2,560	2,750	6.3	1.4	E63742
Do.	do.	T	4- by 2-inch		2,530	2,630	2,770	5.6	1.2	E63743
Do.	do.	T	2- by 1-inch		2,570	2,720	2,850	6.1	.9	E63744
Do.	do.	T	1-1/2-inch by 0		2,470	2,570	2,720	7.0	1.2	E63745
Do.	do.	T	1- by 1/4-inch		2,530	2,620	2,750	6.8	1.2	E63746
Do.	do.	T	1/4-inch by 0		2,460	2,520	2,720	9.2	1.4	E63747
Landrey No. 1	No. 6	T	6-inch lump		2,260	2,420	2,590	7.1	2.0	D39778
Do.	do.	T	6- by 1-1/4-inch		2,080	2,230	2,450	6.6	2.1	D39779
Do.	do.	T	1-1/4- by 7/8-inch		2,050	2,210	2,450	8.1	2.3	D39780
Do.	do.	T	7/8- by 1/8-inch		2,100	2,440	2,500	10.1	2.2	D39781
Patoka	No. 5	T	7- by 4-inch		1,970	2,030	2,280	10.9	4.7	D39520
Do.	do.	T	4- by 2-inch		1,940	2,030	2,280	10.1	4.7	D39521
Do.	do.	T	2- by 1-1/2-inch		1,970	2,030	2,360	10.4	4.7	D39522
Do.	do.	T	1-1/2- by 3/8-inch		1,930	2,020	2,310	10.7	5.0	D39523
Do.	do.	T	1-1/2-inch by 0		1,940	2,000	2,210	12.1	5.3	D39524
Do.	do.	T	3/8-inch by 0		1,900	1,940	2,050	14.1	4.9	D39525
Piko	do.	T	2- by 1-1/4-inch		2,110	2,310	2,810	8.7	2.8	B69932
Do.	do.	T	1-1/4-inch by 0		2,080	2,150	2,470	12.7	3.6	B69933
20th Century	do.	T	4-inch lump		2,060	2,290	2,520	8.6	2.4	B53188
Do.	do.	T	4- by 1-1/2-inch		2,010	2,140	2,430	8.1	2.8	B53189

1 M mine sample; T tipple sample 2 W washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
INDIANA (Con.)										
Pike County (Con.)										
Winslow										
20th Century	No. 5	T	1-1/2-inch by 0		1,950	2,100	2,430	9.0	3.0	B53190
Sullivan County										
Cass										
Vigo No. 28	No. 4	M		12	2,120	2,340	2,500	8.9	2.1	82152 to 82163
Dugger										
Linton Summit No. 4	do.	T	6-inch lump		2,190	2,500	2,690	9.5	2.1	B80941
Do.	do.	T	6- by 1-1/4-inch		2,140	2,240	2,600	9.2	2.3	B80942
Do.	do.	T	1-1/4-inch by 0 (W)		2,170	2,520	2,780	8.8	2.1	B80943
Minnehaha	No. 6	T	6- by 4-inch (W)		1,940	2,050	2,430	8.0	2.7	E63735
Do.	do.	T	4- by 2-inch (W)		1,930	2,050	2,440	8.1	2.6	E63736
Do.	do.	T	2- by 1-1/2-inch (W)		2,010	2,080	2,440	9.0	2.5	E63737
Do.	do.	T	1-1/2-inch by 10-mesh (W)		2,020	2,140	2,470	10.5	2.5	E63738
Do.	do.	T	1-inch by 10-mesh (W)		1,930	2,070	2,440	9.4	2.5	E63739
Do.	do.	T	10-mesh by 0 (W)		2,050	2,160	2,440	11.1	2.4	E63740
Robin Hood	do.	T	6-inch lump		1,910	1,980	2,350	5.6	2.3	E32123
Do.	do.	T	6- by 4-inch (W)		1,980	2,140	2,400	7.8	2.1	E32124
Do.	do.	T	4- by 2-inch (W)		2,010	2,100	2,400	8.4	2.0	E32125
Do.	do.	T	2- by 1-1/2-inch (W)		2,030	2,070	2,390	9.4	2.1	E32126
Do.	do.	T	1-1/2-inch by 0 (W)		2,040	2,140	2,400	10.4	2.2	E32127
Vandalia No. 10	No. 4	M		6	2,170	2,240	2,290	7.7	2.0	82139, 82141 to 82145
Vigo No. 29	No. 6	M		4	2,210	2,400	2,490	9.6	2.5	82308 to 82311
Hymera										
Ebony	do.	T	6-inch lump		1,980	2,200	2,380	7.1	2.3	B46634
Do.	do.	T	6- by 4-inch		2,030	2,230	2,400	7.4	2.1	B46635
Do.	do.	T	4- by 1-1/2-inch		2,030	2,240	2,400	9.0	2.5	B46636
Do.	do.	T	1-1/2-inch by 0		2,080	2,430	2,590	16.2	2.9	B46637
Hymera No. 2	No. 5	M		1	1,840	1,940	2,130	13.0	4.1	96286
King Kol	do.	T	8- by 1-1/2-inch		2,070	2,400	2,580	11.6	3.9	B51675
Do.	do.	T	1-1/2- by 3/16-inch		2,030	2,240	2,500	13.5	4.6	B51676
Jasonville (Greene County)										
Vigo No. 27	No. 4	M		5	2,510	2,630	2,700	8.6	1.2	82118 to 82122
Linton (Greene County)										
Allendale	No. 6	T	6-inch lump		1,990	2,070	2,470	9.0	3.0	B80874
Do.	do.	T	6- by 4-inch		1,980	2,070	2,400	8.5	2.8	B80875
Do.	do.	T	4- by 1-1/2-inch (W)		2,060	2,130	2,430	10.0	2.7	B80876
Do.	do.	T	1-1/2- by 13/16-inch (W)		2,040	2,080	2,420	9.1	2.7	B80877
Do.	do.	T	13/16-inch by 0 (W)		2,030	2,110	2,370	10.3	2.7	B80878
Sullivan										
Baker	No. 5	M		1	2,150	2,200	2,340	6.0	.7	94388
City Coal Company No. 1	do.	M		2	2,130	2,230	2,350	6.6	1.2	A10040 and A10041
Dugger Domestic No. 2	do.	M		2	2,620	2,750	2,910+	6.7	.8	B69509 and B69510
Do.	do.	T	4-inch lump		2,690	2,780	2,910+	5.3	.7	B68687
Do.	do.	T	4- by 2-inch		2,680	2,770	2,910+	7.5	.8	B68688
Do.	do.	T	2- by 1-1/4-inch		2,480	2,610	2,730	6.6	1.0	B68689

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Do.	do.	T	1-1/4-inch by 0		2,200	2,530	2,730	10.8	1.6	B68690
Do.	do.	T	1-1/4- by 3/4-inch		2,310	2,540	2,780	8.5	1.4	B68691
Glendora No. 28	do.	T	8-inch lump		2,570	2,670	2,910+	4.6	.8	B50945
Do.	do.	T	8- by 4-inch		2,620	2,740	2,910+	4.6	.8	B50946
Do.	do.	T	4- by 1-1/2-inch		2,450	2,580	2,800	5.4	.8	B50947
Do.	do.	T	1-1/2- by 1/4-inch		2,170	2,280	2,740	8.4	1.3	B50948
Do.	do.	T	1/4-inch by 0		2,050	2,110	2,310	11.6	1.7	B50949
Pandora	do.	T	4-inch lump		2,470	2,570	2,650	6.3	.7	D38176
Do.	do.	T	1- by 1/8-inch		2,680	2,780	2,890	10.6	.8	D38177
Do.	do.	T	1- by 1/8-inch (W)		2,730	2,780	2,870	12.2	.7	D38178
Do.	do.	T	1/8-inch by 0 (W)		2,620	2,710	2,870	13.7	.6	D38179
Peerless	do.	T	8-inch lump		2,020	2,200	2,620	5.5	.5	B50811
Do.	do.	T	8- by 4-inch		2,020	2,160	2,470	6.0	.6	B50812
Do.	do.	T	4- by 2-inch		2,080	2,160	2,510	6.2	.5	B50813
Do.	do.	T	2- by 1-1/2-inch		2,070	2,250	2,490	5.4	.5	B50814
Do.	do.	T	1-1/2-inch by 0		2,130	2,170	2,470	7.4	.7	B50815
Do.	do.	T	7/8-inch by 0		2,080	2,150	2,320	7.2	.8	B50816
Vandalia No. 16	do.	M		4	2,010	2,110	2,210	8.4	2.0	82109 to 82112
Vandalia No. 17	No. 6	M		6	2,190	2,280	2,390	10.7	2.7	82273 to 82278
Vandalia No. 23	do.	M		6	2,070	2,130	2,210	10.4	3.2	82317 to 82322
Vanderburg County										
Evansville										
Crescent	No. 5	T	6-inch lump		2,050	2,090	2,420	11.2	3.2	B53476
Do.	do.	T	6- by 1 1/4-inch		1,980	2,040	2,390	14.2	4.3	B53477
Do.	do.	T	1-1/4-inch by 0		1,940	2,070	2,320	14.5	3.3	B53478
Do.	do.	T	1-1/4- by 3/8-inch		2,000	2,050	2,270	13.4	3.7	B53479
Do.	do.	T	3/8-inch by 0		2,020	2,080	2,350	13.6	3.1	B53480
Vermilion County										
Blanford										
Essanbee	No. 3	M		1	2,060	2,150	2,230	9.5	3.6	A11575
Centenary										
Clinton	No. 6	T	7- by 3-inch		1,980	2,030	2,390	8.7	2.9	B45609
Do.	do.	T	3- by 1-1/2-inch		1,990	2,080	2,390	10.2	3.1	B45610
Do.	do.	T	3- by 2-inch		1,980	2,060	2,370	9.3	2.8	B45611
Do.	do.	T	2-inch by 0		2,040	2,080	2,390	12.9	3.0	B45612
Do.	do.	T	1-1/2-inch by 0		2,040	2,070	2,420	13.9	3.3	B45613
Submarine No. 2	No. 4	T	6-inch lump		2,620	2,660	2,860	9.8	.8	B45457
Do.	do.	T	6- by 3-inch		2,760	2,820	2,910+	10.6	.7	B45458
Do.	do.	T	3- by 1-1/2-inch		2,630	2,700	2,880	9.6	.8	B45459
Do.	do.	T	1-1/2-inch by 0		2,320	2,350	2,690	11.2	1.2	B45460
Crown Hill No. 6	No. 5	T	8- by 1-1/4-inch		1,910	1,990	2,420	10.9	4.0	B40670
Do.	do.	T	4- by 1-1/4-inch		1,920	1,980	2,420	10.6	4.2	B40671
Do.	do.	T	1-1/4-inch by 0		1,940	1,990	2,470	14.9	4.1	B40672
Clinton										
Dering No. 8	No. 3	M		3	1,960	2,200	2,400	15.0	4.4	88847 to 88849
Standard No. 1	No. 5	T	6-inch lump		1,970	2,050	2,420	7.5	3.6	D35143
Do.	do.	T	6- by 3-inch		1,940	2,030	2,230	8.7	4.1	D35144
Do.	do.	T	3- by 1-1/4-inch		1,940	2,050	2,230	9.1	4.1	D35145
Do.	do.	T	1-1/4- by 5/16-inch		1,920	1,970	2,180	10.8	4.4	D35146
Do.	do.	T	5/16-inch by 0		1,920	1,970	2,080	16.4	4.6	D35147
Standard No. 2	do.	T	5-inch lump		1,920	2,030	2,360	14.2	4.0	D35850
Do.	do.	T	5- by 3-inch		1,920	1,970	2,310	14.3	4.7	D35851
Do.	do.	T	3- by 1-1/4-inch		1,920	1,970	2,310	15.4	4.9	D35852
Do.	do.	T	1-1/4-inch by 0		1,900	1,970	2,180	19.2	4.7	D35853
Sunspot	No. 6	T	7- by 4-inch (W)		2,090	2,150	2,470	9.0	2.3	E63482
Do.	do.	T	4- by 2-inch (W)		2,100	2,170	2,500	9.7	2.4	E63483
Do.	do.	T	2- by 1-inch (W)		2,070	2,150	2,520	9.2	2.4	E63484
Do.	do.	T	1- by 1/4-inch (W)		2,020	2,150	2,430	9.8	2.4	E63485

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
INDIANA (Con.)										
Vermilion County (Con.)										
Clinton										
Sunspot	No. 6	T	1/4-inch by 0 (W)		2,100	2,150	2,450	11.0	2.5	E63486
Newport										
Newport	Minshall	M		2	1,990	2,110	2,160	12.8	5.5	85866 and 85867
Vigo County										
Brazil (Clay County)										
Dexie Line	No. 3	T	6- by 1-1/4-inch		1,970	2,180	2,470	7.5	4.2	D65606
Do.	do.	T	1-1/4- by 3/8-inch		1,970	2,160	2,470	12.0	4.2	D65607
Do.	do.	T	3/8-inch by 0		2,080	2,290	2,450	23.9	5.6	D65608
Coal Bluff										
Otter Creek	do.	T	3- by 1-1/4-inch (W)		1,930	2,190	2,440	6.2	3.3	E30489
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,990	2,140	2,440	6.4	3.3	E30490
Do.	do.	T	3/4- by 1/16-inch (W)		1,910	2,120	2,430	6.7	3.2	E30491
New Goshen										
Fayette No. 4	No. 4	T	6-inch lump		2,340	2,400	2,670	7.2	1.1	B40597
Do.	do.	T	6- by 4-inch (W)		2,510	2,560	2,700	8.2	1.1	B40598
Do.	do.	T	4- by 2-inch (W)		2,510	2,560	2,700	8.6	1.1	B40599
Do.	do.	T	2- by 1-1/4-inch (W)		2,470	2,520	2,660	8.8	1.1	B40600
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,390	2,520	2,680	7.7	1.1	B40601
Do.	do.	T	3/4- by 3/8-inch (W)		2,370	2,510	2,700	7.6	1.2	B40602
Do.	do.	T	3/8-inch by 10-mesh (W)		2,310	2,350	2,540	9.1	1.3	B40603
Miami No. 10	do.	T	6- by 2-inch		2,020	2,190	2,490	9.6	1.7	B40636
Do.	do.	T	2-inch by 0		2,130	2,160	2,380	10.3	1.9	B40637
Standard No. 3	No. 6	T	8- by 2-inch		1,900	1,940	2,210	10.9	3.7	D35634
Do.	do.	T	2-inch by 0		2,000	2,050	2,280	9.7	2.9	D35635
Talleydale No. 3	No. 3	T	6-inch lump		1,870	2,000	2,380	10.2	4.3	B40589
Do.	do.	T	6- by 3-inch (W)		1,870	2,040	2,390	8.8	3.6	B40590
Do.	do.	T	3- by 1-1/4-inch (W)		1,880	2,060	2,400	9.1	3.7	B40591
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,870	2,090	2,400	8.0	3.6	B40592
Do.	do.	T	3/4- by 3/8-inch (W)		1,860	2,010	2,390	8.3	3.6	B40593
Do.	do.	T	3/8-inch by 10-mesh (W)		1,900	1,970	2,340	10.7	4.3	B40594
Riley										
Black Hawk	No. 5	T	8-inch lump		1,930	1,990	2,220	10.4	4.0	C34376
Do.	do.	T	8- by 4-inch		1,940	2,040	2,290	9.8	4.2	C34377
Do.	do.	T	4- by 1-inch (W)		1,930	1,980	2,210	10.5	4.3	C34378
Do.	do.	T	1- by 1/8-inch (W)		1,940	1,980	2,210	11.5	4.5	C34379
Do.	do.	T	1/8-inch by 0 (W)		1,930	1,970	2,210	12.7	4.1	C34380
Do.	do.	T	1/8-inch by 0		1,880	1,950	2,020	18.6	4.8	C34381
Chieftain No. 20	do.	T	6- by 4-inch (W)		2,140	2,400	2,570	6.9	2.4	E31606
Do.	do.	T	4- by 1-1/2-inch (W)		2,550	2,610	2,810	7.3	2.2	E31607
Do.	do.	T	1-1/2- by 1/4-inch (W)		2,420	2,500	2,600	7.2	2.4	E31608
Do.	do.	T	1/4-inch by 28-mesh (W)		2,080	2,250	2,510	7.4	2.5	E31609
Seelyville										
Bobolink No. 7	No. 4	T	6-inch lump		2,310	2,530	2,710	10.7	2.0	B45382
Do.	do.	T	6- by 2-inch		2,460	2,620	2,770	11.3	1.9	B45383
Do.	do.	T	2-inch by 0		2,310	2,400	2,630	13.9	2.0	B45384

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Terre Haute											
Green Valley	No. 3	T	8- by 4-inch (W)		2,000	2,100	2,360	10.0	4.1	D38350	
Do.	do.	T	4- by 2-inch (W)		1,920	2,050	2,420	9.0	3.9	D38351	
Do.	do.	T	2- by 1-1/4-inch (W)		2,000	2,130	2,360	8.0	3.6	D38352	
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,050	2,150	2,470	8.6	3.6	D38353	
Do.	do.	T	3/4- by 1/4-inch (W)		2,030	2,080	2,360	8.8	3.9	D38354	
Do.	do.	T	1/4- by 1/8-inch (W)		2,030	2,080	2,340	8.1	3.8	D38355	
Do.	do.	T	1/8-inch by 0 (W)		1,900	1,930	2,110	13.2	4.5	D38356	
Royal Splint No. 2	do.	T	6- by 1-1/4-inch		2,020	2,130	2,420	11.6	5.4	D65609	
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,000	2,110	2,540	6.4	3.9	D65610	
Saxton	No. 4	M		4	2,200	2,320	2,530	7.6	1.1	B14590	to B14593
Do.	do.	T	6-inch lump		2,800	2,860	2,890	8.6	.7	D36142	
Do.	do.	T	6- by 3-inch (W)		2,780	2,840	2,890	8.8	.6	D36143	
Do.	do.	T	3- by 2-inch (W)		2,730	2,780	2,870	8.0	.8	D36144	
Do.	do.	T	2- by 1-1/4-inch (W)		2,420	2,700	2,840	7.6	.8	D36145	
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,420	2,650	2,840	7.1	.9	D36146	
Do.	do.	T	3/8-inch by 0		2,330	2,360	2,390	10.9	1.0	D36147	
Talleydale	No. 3	T	6- by 4-inch (W)		1,920	2,000	2,260	8.0	4.1	D35627	
Do.	do.	T	4- by 2-inch (W)		1,960	2,040	2,290	9.0	3.9	D35628	
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,100	2,420	9.5	4.0	D35629	
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,900	2,000	2,360	8.3	3.8	D35630	
Do.	do.	T	3/4- by 3/8-inch (W)		2,000	2,130	2,360	9.6	4.0	D35631	
Do.	do.	T	3/8-inch by 10-mm. (W)		1,940	2,030	2,230	12.6	4.4	D35632	
Do.	do.	T	3/8-inch by 0		1,920	2,030	2,210	16.7	5.5	D35633	
Tri-K	No. 5	T	8- by 4-inch (W)		1,970	2,040	2,340	11.8	3.8	E86988	
Do.	do.	T	4- by 2-inch (W)		1,970	2,060	2,370	10.6	3.3	E86989	
Do.	do.	T	2- by 1-inch (W)		1,920	2,040	2,400	9.9	3.6	E86990	
Do.	do.	T	1- by 3/8-inch (W)		1,960	2,030	2,360	11.3	3.7	E86991	
Do.	do.	T	3/8-inch by 0		1,910	1,980	2,130	16.6	5.2	E86992	
Victory	No. 3	T	4- by 1-1/4-inch (W)		2,050	2,130	2,380	8.3	3.6	E31275	
Do.	do.	T	1-1/4- by 7/8-inch (W)		2,010	2,150	2,430	8.1	3.5	E31276	
Do.	do.	T	7/8- by 1/2-inch (W)		1,970	2,170	2,470	8.8	3.5	E31277	
Do.	do.	T	1/2-inch by 28-mesh (W)		2,020	2,160	2,460	9.3	3.6	E31278	
Viking	No. 5	T	Run-of-mine		1,920	2,010	2,340	14.4	5.5	E63113	
Wabash	do.	T	8- by 4-inch (W)		1,920	2,000	2,310	10.9	3.9	D38180	
Do.	do.	T	4- by 2-inch (W)		1,920	2,000	2,360	10.3	3.8	D38181	
Do.	do.	T	2- by 1-1/4-inch (W)		2,000	2,030	2,180	10.0	3.7	D38182	
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,000	2,030	2,310	10.5	3.8	D38183	
Do.	do.	T	3/4- by 1/4-inch (W)		2,000	2,030	2,180	11.0	3.7	D38184	
Do.	do.	T	1/4- by 1/8-inch (W)		2,000	2,050	2,230	10.8	3.4	D38185	
Do.	do.	T	1/8-inch by 0 (W)		1,870	1,940	2,150	13.8	4.0	D38186	
Warrick County											
Boonville											
Hillcrest	do.	T	2-inch lump		1,980	1,990	2,010	10.6	5.3	B65670	
Do.	do.	T	2- by 1-inch		1,980	2,010	2,150	10.2	5.3	B65671	
Do.	do.	T	1- by 1/4-inch		1,950	1,990	2,180	9.3	4.7	B65672	
Do.	do.	T	1-inch by 0		1,890	1,980	2,150	10.7	4.8	B65673	
Lucky Strike	do.	T	Run-of-mine		1,980	2,050	2,330	12.1	4.7	B81204	
Mt. Nebo	do.	T	2-1/2-inch lump		2,010	2,040	2,360	11.9	4.1	B53435	
Do.	do.	T	Run-of-mine		2,050	2,090	2,370	12.6	3.8	B53436	
Peacock	do.	T	3-inch lump		1,970	2,030	2,320	11.8	4.8	B53643	
Do.	do.	T	3- by 1-1/2-inch		1,960	2,050	2,370	10.6	4.3	B53644	
Do.	do.	T	1-1/2-inch by 0		2,060	2,100	2,370	12.2	4.1	B53645	
Star Hill No. 1	do.	T	6- by 4-inch		2,000	2,200	2,480	7.6	3.6	B53268	
Do.	do.	T	4- by 2-inch		2,000	2,200	2,460	8.2	3.9	B53269	
Do.	do.	T	1-1/2-inch by 0		2,000	2,050	2,460	10.4	5.2	B53270	
Sunlight No. 11	do.	T	4- by 2-inch (W)		1,980	2,100	2,370	7.6	3.8	D82018	
Do.	do.	T	2- by 1-1/2-inch (W)		1,920	2,080	2,380	7.8	3.8	D82019	
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,970	2,050	2,360	8.0	3.6	D82020	
Tecumseh	do.	T	6- by 2-inch (W)		2,150	2,440	2,560	11.8	3.4	B65811	

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
INDIANA (Con.)										
Warrick County (Con.)										
Boonville										
Tecumseh	No. 5	T	2- by 1-1/2-inch (W)		2,270	2,470	2,580	11.3	3.2	B65812
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,270	2,490	2,580	11.6	3.1	B65813
Do.	do.	T	3/4- by 3/8-inch (W)		2,270	2,480	2,710	11.8	3.2	B65814
Do.	do.	T	3/8-inch by 1/2-mm. (W)		2,270	2,490	2,750	14.3	3.0	B65815
Do.	do.	T	1-1/2-inch by 1/2-mm. (W)		2,220	2,400	2,590	11.2	3.6	B65816
Do.	do.	T	4- by 3-inch		1,970	2,090	2,370	8.9	3.9	E34768
Do.	do.	T	3- by 1-1/2-inch (W)		1,970	2,090	2,370	8.8	4.0	E34769
Do.	do.	T	1-1/2-inch by 10-mesh (W)		1,950	2,100	2,390	9.0	3.9	E34770
Do.	do.	T	1-1/2- by 1-inch (W)		1,920	2,090	2,370	8.7	4.1	E34771
Do.	do.	T	1- by 3/8-inch (W)		1,940	2,090	2,370	8.8	4.0	E34772
Do.	do.	T	1-inch by 10-mesh (W)		1,940	2,020	2,320	9.0	4.2	E34773
Do.	do.	T	3/8-inch by 10-mesh (W)		1,950	2,020	2,100	8.7	3.9	E34774
Chandler										
Three Coal	do.	T	6-inch lump		2,000	2,030	2,210	10.5	4.2	D39536
Do.	do.	T	6- by 2-inch		1,990	2,020	2,290	10.1	4.3	D39537
Do.	do.	T	2- by 1-1/2-inch		1,970	2,000	2,150	10.3	4.6	D39538
Do.	do.	T	1-1/2-inch by 0		1,940	2,000	2,150	12.5	4.7	D39539
Elberfeld										
Ditney Hill	No. 6	M		6	2,430	2,550	2,760	9.4	.9	B52963 to B52968
Do.	do.	T	6-inch lump		2,360	2,460	2,680	5.5	2.4	E64150
Do.	do.	T	6- by 3-inch (W)		2,210	2,260	2,510	5.9	2.5	E64151
Do.	do.	T	3- by 2-inch (W)		2,170	2,220	2,500	5.5	2.8	E64152
Do.	do.	T	2- by 7/8-inch (W)		2,130	2,180	2,430	5.7	2.8	E64153
Do.	do.	T	7/8- by 1/4-inch (W)		2,080	2,160	2,380	6.7	3.0	E64154
Do.	do.	T	1/4-inch by 0		1,910	2,060	2,150	11.2	3.5	E64155
Lynnville										
Buckskin	No. 5	T	6- by 4-inch (W)		2,090	2,200	2,520	11.3	3.3	E32436
Do.	do.	T	4- by 1-inch (W)		2,100	2,230	2,530	11.9	3.1	E32437
Do.	do.	T	1-inch by 28-mesh (W)		2,070	2,190	2,500	11.2	3.4	E32438
Do.	do.	T	1- by 1/2-inch (W)		2,030	2,140	2,490	10.6	3.1	E32439
Sunlight No. 14	do.	T	4- by 3-inch (W)		1,980	2,120	2,350	9.0	4.0	E34995
Do.	do.	T	3- by 1-1/2-inch (W)		1,980	2,120	2,400	8.8	3.8	E34996
Do.	do.	T	1-1/2- by 1-inch (W)		1,920	2,050	2,360	9.0	4.1	E34997
Do.	do.	T	1-1/2-inch by 10-mesh (W)		1,930	2,060	2,360	9.2	4.1	E34998
Do.	do.	T	1- by 3/8-inch (W)		1,930	2,120	2,380	9.4	4.3	E34999
Do.	do.	T	1-inch by 10-mesh (W)		1,950	2,070	2,370	9.5	4.2	E35000
Do.	do.	T	3/8-inch by 10-mesh (W)		1,930	2,100	2,380	9.7	4.2	E35001
Wasson	do.	T	4- by 1-1/2-inch (W)		2,100	2,260	2,420	12.2	3.4	D39540
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,100	2,260	2,420	11.3	3.5	D39541
Do.	do.	T	3/4-inch by 28-mesh (W)		2,150	2,280	2,490	12.3	3.4	D39542
Newburgh										
ABCO	do.	T	4-inch lump		2,000	2,150	2,430	10.1	4.3	D99155
Do.	do.	T	4- by 1-1/2-inch		1,940	2,070	2,330	9.1	3.6	D99156
Do.	do.	T	1-1/2-inch by 0		1,940	2,110	2,430	11.4	3.3	D99157
Yankeetown										
Horton	do.	T	4-inch lump		2,080	2,130	2,230	10.5	3.1	B81029

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Do.	do.	T	4- by 2-inch		1,940	2,020	2,230	12.8	4.1	B81030
Do.	do.	T	2- by 1-1/4-inch		2,000	2,050	2,240	12.3	3.6	B81031
Do.	do.	T	1-1/4- by 3/8-inch		2,050	2,130	2,360	12.6	3.0	B81032
Do.	do.	T	3/8-inch by 0		2,050	2,120	2,250	14.9	3.1	B81033
			IOWA							
Appanoose County										
Centerville										
Dennis	Mystic No. 1	T	10-inch lump		1,920	1,950	2,020	11.6	5.0	B96013
Do.	do.	T	6- by 2-inch		1,920	1,950	2,010	11.1	4.9	B96014
Do.	do.	T	2-inch by 0		1,970	1,990	2,030	14.8	5.5	B96015
Midway	Mystic	T	2-inch lump		1,870	1,910	2,020	12.0	5.0	B96627
Do.	do.	T	2-inch by 0		1,970	2,000	2,210	22.5	6.0	B96628
New Block	Mystic No. 1	T	7-inch lump		1,910	1,930	2,020	11.7	5.3	B95820
Do.	do.	T	7-inch by 0		1,930	1,950	2,010	13.9	5.2	B95821
Old King	Mystic	T	8-inch lump		1,920	1,940	2,060	11.6	5.0	B95536
Do.	do.	T	8- by 4-inch		1,900	1,920	2,010	11.7	5.0	B95537
Do.	do.	T	4- by 2-inch		1,940	1,980	2,180	14.2	5.0	B95538
Do.	do.	T	2-inch by 0		2,010	2,040	2,220	23.6	4.4	B95539
Sunshine No. 1	do.	T	8-inch lump		1,880	1,950	1,990	11.1	4.9	B58757
Do.	do.	T	8- by 2-inch		1,940	1,990	2,120	11.7	5.0	B58758
Do.	do.	T	2-inch by 0		2,000	2,020	2,270	20.1	5.5	B58759
Do.	do.	T	1/4-inch by 0		1,990	2,060	2,320	31.2	6.3	B58760
Do.	do.	M		3	1,940	1,980	2,120	13.9	5.7	B58861, B58863 and B58865
Sunshine No. 3	do.	T	Run-of-mine		1,920	1,980	2,160	16.2	5.5	B53604
Do.	do.	T	8-inch lump		1,880	1,950	2,020	10.5	4.3	B58838
Do.	do.	T	8- by 4-inch		1,860	1,950	1,970	12.6	5.3	B58839
Do.	do.	T	4- by 2-inch		1,900	1,970	2,030	11.6	4.9	B58840
Do.	do.	T	2- by 1-1/2-inch		1,990	2,010	2,270	13.3	4.6	B58841
Do.	do.	T	1- by 1/2-inch		1,940	2,010	2,340	13.8	4.9	B58842
Do.	do.	T	1-1/2-inch by 0		1,950	2,000	2,340	16.8	5.2	B58843
Do.	do.	T	1/4-inch by 0		1,960	2,040	2,220	28.7	6.3	B58844
Sunshine No. 4	do.	T	1-inch lump		1,870	1,920	2,000	14.0	5.6	E86267
Do.	do.	T	1- by 1/2-inch		1,920	1,950	2,010	12.1	4.9	E86268
Do.	do.	T	1/2-inch by 0		1,930	1,960	2,050	16.0	5.2	E86269
Exline										
Casady	do.	T	6-inch lump		1,890	1,930	2,150	10.6	4.6	B98083
Do.	do.	T	6- by 2-inch		1,920	1,950	2,150	12.7	4.5	B98084
Do.	do.	T	2-inch by 0		1,980	2,060	2,310	24.8	4.5	B98085
Garfield										
Garfield	do.	T	8-inch lump		1,890	1,920	2,080	11.4	5.1	B97921
Do.	do.	T	8- by 2-inch		1,950	1,990	2,270	14.3	5.4	B97922
Do.	do.	T	2-inch by 0		1,990	2,020	2,280	21.7	5.9	B97923
Mystic										
Electric No. 4	Mystic No. 1	T	10-inch lump		1,910	1,930	2,010	10.9	4.9	B95817
Do.	do.	T	10- by 6-inch		1,900	1,930	2,020	11.6	5.0	B95818
Do.	do.	T	6-inch by 0		1,940	1,990	2,130	13.6	5.1	B95819
Rathbun										
Enterprise	Mystic	T	5-inch lump		1,870	1,910	1,980	10.5	5.2	B95860
Do.	do.	T	5-inch by 0		1,930	1,980	2,110	13.8	5.0	B95861
Rathbun No. 1	do.	T	10-inch lump		1,890	1,920	2,000	12.9	5.3	B96457
Do.	do.	T	10- by 4-inch		1,890	1,920	2,020	11.4	5.3	B96458
Do.	do.	T	4- by 1-1/4-inch		1,950	2,000	2,090	16.8	5.6	B96459
Do.	do.	T	1-1/4-inch by 0		2,000	2,020	2,180	25.1	6.4	B96460
Boone County										
Boone										
Bluff Creek	Black Jack (Upper Bench)	T	1-3/4-inch lump		2,000	2,010	2,080	17.7	8.4	B59187

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
IOWA (Con.)										
Boone County (Con.)										
Boone										
Bluff Creek	Black Jack (Upper Bench)	T	1-3/4- by 1-inch		2,000	2,030	2,100	19.9	8.6	B59188
Do.	do.	T	1-inch by 0		2,000	2,020	2,090	28.9	9.9	B59189
Madrid										
Scandia No. 4	Lower	M		3	2,120	2,190	2,300	11.4	5.3	B59549 to B59551
Dallas County										
Granger										
Dallas No. 1	No. 3	T	Run-of-mine		2,060	2,090	2,270	16.0	4.9	C1803
Waukee										
Shuler No. 1	do.	M		6	2,030	2,060	2,120	12.7	5.1	B61898 to B61903
Davis County										
Ottumwa (Wapello County)										
South Iowa	No. 2	T	Run-of-mine		1,870	1,920	1,970	19.0	8.6	E85861
Jasper County										
Colfax										
Hopkins No. 4	No. 3	T	do.		1,940	2,000	2,090	16.5	6.7	C1802
Lucas County										
Williamson										
Central Iowa No. 5	do.	M		3	1,990	2,050	2,280	19.9	6.4	A87276 to A87278
Powell (Consolidated No. 3)	do.	M		3	2,020	2,100	2,170	12.4	3.4	A87206 to A87208
Do.	do.	T	2-3/4-inch lump		1,960	2,060	2,130	13.2	4.2	B97694
Do.	do.	T	2-3/4- by 1-1/2-inch		1,900	2,000	2,140	13.7	3.7	B97695
Do.	do.	T	1-1/2-inch by 0		1,940	2,080	2,180	16.4	3.9	B97696
Mahaska County										
Eddyville (Wapello County)										
Atlas	-	T	7-inch lump		2,020	2,050	2,100	11.5	6.6	C734
Do.	-	T	7- by 3-inch		1,990	2,020	2,100	11.1	6.1	C735
Do.	-	T	3- by 2-inch		1,990	2,040	2,100	9.7	6.4	C736
Do.	-	T	2-inch by 0		2,070	2,090	2,170	10.7	5.7	C737
Oskaloosa										
Angus	Lower Cherokee	T	Run-of-mine		1,900	1,960	2,040	17.8	4.9	E84840
Marion County										
Attica										
Twin Elm	-	T	do.		1,960	1,990	2,130	16.5	7.6	C313
Bussey										
Big Six No. 2	-	T	6-inch lump		1,990	2,010	2,140	12.9	4.9	B98990
Do.	-	T	6- by 2-inch		1,930	1,980	2,100	14.9	5.1	B98991

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Do.	-	T	2-inch by 0		1,990	2,010	2,140	16.5	4.9	B98992
Big Six No. 3	-	T	6-inch lump		2,010	2,050	2,100	12.8	5.0	B98993
Do.	-	T	6- by 2-inch		1,940	2,000	2,100	16.3	6.4	B98994
Do.	-	T	2- by 1-1/4-inch		1,940	2,000	2,100	17.3	6.5	B98995
Do.	-	T	1-1/4- by 1/4-inch		2,000	2,050	2,300	18.4	5.8	B98996
Do.	-	T	1/4-inch by 0		2,040	2,130	2,310	21.9	5.4	B98997
Honey Creek	-	T	Run-of-mine		1,940	1,990	2,170	16.1	4.6	B99042
Lovilia No. 3	-	T	6-inch lump		1,920	2,120	2,290	13.0	5.3	E85744
Do.	-	T	6- by 2-inch		1,970	2,010	2,080	15.5	6.5	E85745
Do.	-	T	2- by 1-1/4-inch		1,910	1,960	1,980	16.7	6.3	E85746
Do.	-	T	1-1/4- by 3/16-inch		1,920	1,970	2,070	18.3	5.8	E85747
Do.	-	T	3/16-inch by 0		1,920	1,980	2,070	23.6	6.0	E85748
Hamilton										
Crow	-	T	6-inch lump		1,930	1,970	2,090	14.4	6.6	C961
Do.	-	T	6- by 2-inch		1,940	2,000	2,110	16.4	6.8	C962
Do.	-	T	2-inch by 0		1,970	2,060	2,190	19.9	6.4	C963
Jude	-	T	Run-of-mine		1,960	2,040	2,440	21.8	5.1	E85455
Pee Wee No. 2 Slope	-	T	2-inch lump		2,090	2,120	2,180	14.6	6.2	B98915
Do.	-	T	2-inch by 0		2,050	2,090	2,140	16.6	5.4	B98916
Harvey										
Weldon	-	T	Run-of-mine		1,930	2,020	2,060	12.2	5.4	E40802
Knoxville										
Beard	-	T	1-inch lump		1,990	2,020	2,050	12.5	4.7	E84833
Do.	-	T	1- by 1/4-inch		1,900	1,980	2,050	15.7	4.4	E84834
Do.	-	T	1/4-inch by 0		1,940	2,000	2,080	20.2	4.6	E84835
Elm Creek	-	T	2-1/2-inch lump		1,920	1,980	2,020	16.6	7.5	C318
Do.	-	T	2-1/2- by 1-1/4-inch		1,920	2,000	2,080	20.0	7.7	C319
Do.	-	T	1-1/4-inch by 0		1,920	2,010	2,120	20.5	7.1	C320
Flagler	-	T	6- by 2-inch		2,070	2,120	2,180	15.5	6.9	B98912
Do.	-	T	2-inch by 0		1,990	2,010	2,120	19.3	6.0	B98913
Pershing	-	T	7-inch lump		2,180	2,370	2,430	14.4	6.5	E84836
Do.	-	T	7- by 4-inch		2,050	2,170	2,230	14.3	6.6	E84837
Do.	-	T	4- by 1-1/2-inch		1,870	1,930	2,050	14.4	5.9	E84838
Do.	-	T	1-1/2-inch by 0		1,910	1,980	2,150	17.0	6.1	E84839
Producer	-	T	Run-of-mine		1,930	1,980	2,100	15.5	5.2	C317
Ramsay-Collins	-	T	8-inch lump		1,930	1,970	2,010	14.0	5.8	C491
Do.	-	T	8- by 2-inch		1,940	1,980	2,230	14.7	5.2	C492
Do.	-	T	2-inch by 0		1,950	2,030	2,280	16.9	4.5	C493
Ver Steeg	-	T	Run-of-mine		1,930	2,030	2,060	19.2	6.2	E85456
Marysville										
Houghton	-	T	do.		1,910	1,940	2,010	12.1	6.2	B98914
Pershing										
Pershing No. 12	Mammoth	M		3	2,050	2,130	2,260	18.5	3.7	A87272 to A87274
Pershing No. 14	do.	T	6-inch lump		2,020	2,080	2,150	12.4	5.6	C314
Do.	do.	T	6- by 2-inch		1,910	1,960	2,010	15.5	6.7	C315
Do.	do.	T	2-inch by 0		1,910	1,970	2,060	18.0	6.7	C316
Monroe County										
Albia										
Gibb	-	T	2-inch lump		1,910	1,930	1,970	14.3	4.8	B96551
Do.	-	T	2-inch by 0		1,930	1,990	2,080	14.8	6.5	B96552
Graham No. 3	No. 3	T	6-inch lump		2,110	2,150	2,220	12.5	6.3	B96624
Do.	do.	T	6- by 2-inch		2,000	2,040	2,110	13.9	6.9	B96625
Do.	do.	T	2-inch by 0		1,890	1,930	2,060	16.5	6.5	B96626
Green Ridge	-	T	2-inch lump		1,960	2,030	2,100	12.7	5.0	B97618
Do.	-	T	2-inch by 0		1,910	2,010	2,110	21.7	5.8	B97619
Lovilia										
Blackstone	Smoky Hollow	T	6-inch lump		2,020	2,050	2,180	11.4	4.8	B53538
Do.	do.	T	6- by 2-inch		1,920	1,980	2,140	11.4	5.0	B53539
Do.	do.	T	2- by 1-1/4-inch		1,940	1,980	2,160	14.9	5.1	B53540
Do.	do.	T	1-1/4-inch by 0		1,920	1,980	2,090	13.9	4.4	B53541

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3 - Fusibility of ash of United States coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature °F	Fusibility of Ash: Softening temperature °F	Fusibility of Ash: Fluid temperature °F	Percent dry basis: Ash	Percent dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
IOWA (Con.)										
Monroe County (Con.)										
Lovilia										
Blackstone	Smoky Hollow	M		2	1,920	1,960	2,080	10.7	4.1	B93725 and B93726
Lovilia No. 2	-	T	4-inch lump		2,020	2,100	2,150	13.4	5.1	K60596
Do.	-	T	4-inch by 0		1,920	1,980	2,010	17.4	6.1	K60597
White Oak	-	T	4-inch lump		1,920	2,010	2,060	12.1	3.4	B96553
Do.	-	T	4- by 2-inch		1,890	1,930	2,010	13.8	3.8	B96554
Do.	-	T	1-1/4- by 3/8-inch		1,890	1,930	2,010	13.6	3.5	B96555
Page County										
Clarinda										
Clarinda	Nodaway	M		3	2,130	2,210	2,310	12.2	4.1	B61981 to B61983
Do.	do.	T	Run-of-mine		2,250	2,330	2,430	12.2	4.2	B62188
Pearson	do.	T	do.		2,220	2,310	2,490	13.3	3.8	B62055
Polk County										
Des Moines										
Beck	No. 3	T	4-inch lump		2,040	2,070	2,210	13.1	5.2	B61470
Do.	do.	T	4- by 1-1/8-inch		1,960	2,000	2,020	14.2	5.6	B61471
Do.	do.	T	1-1/8-inch by 0		1,910	2,020	2,230	16.1	4.7	B61472
Do.	do.	T	1-1/8- by 1/4-inch		1,900	1,980	2,200	14.2	5.0	B61473
Do.	do.	T	1/4-inch by 0		1,890	1,930	2,100	17.9	5.7	B61474
Urbandale										
Central Service No. 6	do.	T	9-inch lump		2,130	2,170	2,230	14.0	5.8	C1610
Do.	do.	T	9- by 2-inch		1,890	1,940	2,020	17.5	6.3	C1611
Do.	do.	T	2-inch by 0		1,920	2,000	2,140	20.4	5.9	C1612
Taylor County										
New Market										
New Market	Nodaway	M		1	2,020	2,090	2,110	14.6	5.3	A14061
New Market No. 2	do.	T	2- by 1-1/4-inch		2,250	2,330	2,430	14.3	5.1	B62189
Do.	do.	T	1-1/4- by 1/4-inch		2,130	2,170	2,250	13.3	4.7	B62190
Do.	do.	T	1/4-inch by 0		2,170	2,200	2,250	17.8	5.2	B62191
Van Buren County										
Bonaparte										
Hamlin No. 3	-	T	2-inch lump		2,050	2,140	2,370	12.7	6.4	B98511
Do.	-	T	2-inch by 0		1,930	2,020	2,300	19.8	8.3	B98512
Wapello County										
Blakesburg										
Blakesburg	-	T	4-inch lump		1,900	1,980	2,090	11.6	4.8	B96557
Do.	-	T	4-inch by 0		1,940	2,080	2,150	17.8	5.4	B96558
Chilicothe										
Hawkeye No. 3	-	T	6-inch lump		2,270	2,440	2,540	11.4	5.0	B98508
Do.	-	T	6- by 2-inch		2,250	2,400	2,520	12.5	5.0	B98509

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Do.		T	2-inch by 0		2,070	2,160	2,220	12.9	5.1	B98510
Kirkville										
Carver	Kirkville	T	6-inch lump		1,870	1,950	2,140	13.9	6.3	B98209
Do.	do.	T	6- by 2-inch		1,930	1,990	2,260	17.8	7.0	B98210
Do.	do.	T	2-inch by 0		1,910	1,930	2,100	19.6	6.9	B98211
Wayne County										
Promise City										
Confidence	Mystic	T	Run-of-mine		1,880	1,930	2,120	13.1	6.0	B98086
Webster County										
Fort Dodge										
Jensen	No. 3	M		3	2,110	2,200	2,390	13.5	7.3	B62422 to B62424
Do.	do.	T	5-inch lump		1,950	2,110	2,350	13.3	7.2	B62429
Do.	do.	T	5- by 1-1/2-inch		1,950	2,200	2,240	15.6	8.5	B62430
Do.	do.	T	1-1/2-inch by 0		1,940	2,030	2,070	17.0	6.8	B62431

KANSAS

Bourbon County										
Garland										
Kelly-Carter	Bevier	T	7- by 3-inch (W)		2,360	2,650	2,730	13.5	2.4	D62085
Do.	do.	T	3- by 2-inch (W)		2,470	2,680	2,730	14.3	2.3	D62086
Do.	do.	T	2- by 1-1/4-inch (W)		2,570	2,680	2,730	14.1	2.4	D62087
Do.	do.	T	1-1/4-inch by 0 (W)		2,210	2,310	2,420	10.6	2.3	D62088
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,520	2,570	2,590	12.5	2.3	D62089
Do.	do.	T	Run-of-mine (W)		2,420	2,470	2,520	13.0	2.7	D62090
Cherokee County										
Cherokee (Crawford County)										
Commercial Fuel No. 2	Lightning Creek	M		1	1,940	2,020	2,090	15.7	3.8	B2652
Do.	Lightning Creek Rider	M		1	2,250	2,330	2,390	10.9	2.4	B2653
Commercial No. 2	Mineral	T	7- by 3-inch (W)		1,980	2,060	2,160	10.2	4.9	B91627
Do.	do.	T	3- by 1-1/4-inch (W)		2,000	2,080	2,320	8.8	4.5	B91628
Do.	do.	T	1-1/4-inch by 0 (W)		2,080	2,120	2,340	11.2	4.0	B91629
Columbus										
Best Coal Company	Cherokee	M		2	1,970	2,010	2,240	17.1	7.7	B2672 and B2673
Prospect	-	M		1	1,960	2,010	2,180	16.9	6.3	B2654
Semples	Cherokee	T	5- by 3-inch (W)		2,070	2,100	2,130	14.8	4.4	E56774
Hallowell										
Pittsburg & Midway No. 19	Mineral	T	6- by 3-inch		1,950	1,990	2,060	10.3	4.5	D98105
Do.	do.	T	3- by 2-inch		1,860	1,890	1,900	9.0	3.8	D98106
Do.	do.	T	2- by 1-1/4-inch		1,910	1,960	2,010	7.5	3.5	D98107
Do.	do.	T	1-1/4-inch by 0		1,910	1,960	2,030	7.8	3.2	D98108
Do.	do.	T	3- by 1-1/4-inch		1,870	1,930	2,030	8.0	3.7	D98109
Do.	do.	T	1-1/4- by 3/4-inch		1,900	1,970	2,030	7.2	3.4	D98110
Do.	do.	T	3/4- by 1/4-inch		1,910	1,970	2,070	7.7	3.1	D98111
West Mineral										
Pittsburg & Midway No. 15	do.	M		2	1,950	2,010	2,250	11.4	3.2	B2667 and B2668
Do.	do.	T	7- by 3-inch (W)		2,050	2,130	2,180	16.2	4.3	D29180
Do.	do.	T	3- by 2-inch (W)		1,900	1,920	2,130	11.9	3.8	D29181
Do.	do.	T	2- by 1-1/4-inch (W)		1,900	1,930	2,160	11.2	3.5	D29182
Do.	do.	T	1-1/4-inch by 0 (W)		1,940	1,970	2,260	10.4	3.3	D29183
Pittsburg & Midway No. 18	Bevier	M		6	2,380	2,450	2,500	13.4	3.1	B62939 to B62944
Do.	do.	T	6- by 3-inch (W)		2,420	2,680	2,730	15.7	2.4	D62350
Do.	do.	T	3- by 2-inch (W)		2,530	2,690	2,760	15.3	2.1	D62351
Do.	do.	T	2- by 1-1/4-inch (W)		2,230	2,680	2,780	14.5	2.4	D62352
Do.	do.	T	1-1/4-inch by 0 (W)		2,260	2,360	2,470	10.2	2.8	D62353

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3.—Fusibility of Ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature °F	Fusibility of Ash: Softening temperature °F	Fusibility of Ash: Fluid temperature °F	Percent dry basis: Ash	Percent dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KANSAS (Con.)										
Crawford County										
Arma										
Western No. 22	Cherokee	T	Run-of-mine (3/4-inch by 0 removed)		1,980	2,050	2,430	11.9	4.2	B52163
Do.	do.	T	3/4-inch by 0		1,970	2,020	2,270	15.5	4.4	B52164
Cato										
Moberly	Fort Scott	M		2	2,000	2,060	2,360	8.9	4.0	B2661 and B2662
Cherokee										
Apex	Bevier	T	6- by 3-inch		2,720	2,740	2,760	13.1	2.0	B91288
Do.	do.	T	3- by 1-1/4-inch		2,660	2,690	2,740	15.0	1.9	B91289
Do.	do.	T	1-1/4-inch by 0		2,310	2,350	2,420	13.8	2.0	B91290
Hamilton No. 9	Cherokee	T	Run-of-mine		-	2,060	2,090	14.8	2.7	A2472
Do.	do.	M		3	2,100	2,160	2,210	10.1	2.4	A2473 to A2475
Krueger	do.	T	3-inch lump		2,050	2,120	2,270	11.8	5.4	B92025
Do.	do.	T	3- by 1-1/4-inch		2,020	2,050	2,270	9.5	4.0	B92026
Do.	do.	T	1-1/4-inch by 0		1,950	2,020	2,110	15.2	4.2	B92027
New Hamilton No. 9	Bevier	T	7- by 3-inch		2,250	2,640	2,680	12.1	2.6	B60029
Do.	do.	T	3- by 1-1/4-inch		2,240	2,570	2,610	12.0	3.1	B60030
Do.	do.	T	1-1/4-inch by 0		2,180	2,240	2,320	13.2	3.3	B60031
Chicopee										
Pittsburg & Midway No. 17	Lightning Creek	M		2	1,960	2,050	2,170	14.3	3.8	B2665 and B2666
Croweburg										
Pioneer	Baxter	T	6- by 3-inch (W)		1,920	1,990	2,110	13.0	4.5	B51724
Do.	do.	T	3- by 1-1/4-inch (W)		1,990	2,030	2,220	10.7	3.4	B51725
Do.	do.	T	1-1/4-inch by 1/2-mm. (W)		1,980	2,040	2,230	11.4	3.5	B51726
Franklin										
Western No. 24	Cherokee	T	1/2-inch lump		1,920	2,040	2,270	12.5	5.7	B52059
Do.	do.	T	1/2-inch by 0		1,900	2,020	2,180	18.2	5.0	B52060
Frontenac										
Menghini No. 1	Mineral	T	6- by 3-inch		1,920	1,940	1,980	17.0	6.3	B92312
Do.	do.	T	3- by 1-1/4-inch		1,950	2,000	2,200	13.2	4.5	B92313
Do.	do.	T	1-1/4-inch by 0		1,970	2,000	2,200	16.0	4.0	B92314
Victor No. 42	Cherokee	T	3-inch lump		2,020	2,060	2,320	9.5	5.0	B91630
Do.	do.	T	3- by 1-1/4-inch		2,020	2,080	2,250	10.7	4.9	B91631
Do.	do.	T	1-1/4-inch by 0		1,960	2,000	2,200	11.6	4.3	B91632
Monmouth										
Ace	Bevier	T	7- by 3-inch		2,520	2,680	2,730	12.7	1.8	D61660
Do.	do.	T	3- by 1-1/4-inch (W)		2,470	2,640	2,730	13.1	1.7	D61661
Do.	do.	T	1-1/4-inch by 0 (W)		2,150	2,420	2,470	9.7	2.3	D61662
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,310	2,450	2,520	12.1	2.0	D61663
Do.	do.	T	3/4- by 5/16-inch (W)		2,180	2,230	2,310	10.7	2.2	D61664
Mulberry										
Clemens No. 22	Cherokee	T	7- by 3-inch (W)		1,990	2,030	2,180	10.6	4.8	E27639
Do.	do.	T	3- by 2-inch (W)		1,940	2,020	2,230	8.7	3.8	E27640
Do.	do.	T	3- by 1-1/4-inch (W)		1,920	2,000	2,380	8.0	3.7	E27641
Do.	do.	T	2- by 1-1/4-inch (W)		1,940	2,000	2,240	7.8	3.4	E27642
Do.	do.	T	1-1/4- by 3/4-inch (W)		1,950	2,020	2,310	7.6	3.7	E27643
Do.	do.	T	1- by 1/4-inch (W)		1,920	2,020	2,310	7.7	3.7	E27644

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Do.	do.	T	1-1/4-inch by 0 (W)		1,870	2,000	2,310	8.8	3.7	E27645
Pioneer Coal Company	Ironclad	M		2	2,080	2,160	2,210	9.5	2.7	B2669 and B2670
Pittsburg										
Central No. 51	Cherokee	T	Run-of-mine		2,010	2,040	2,100	13.2	2.9	A2342
Do.	do.	M		5	2,030	2,070	2,110	9.0	2.8	A2343 to A2347
Clemens No. 23	Mineral	M		2	1,950	2,000	2,180	12.7	4.5	B2655 and B2656
Do.	do.	T	12- by 3-inch		1,900	1,940	2,120	15.5	5.4	B51871
Do.	do.	T	3- by 2-inch		1,950	1,990	2,220	12.8	4.2	B51872
Do.	do.	T	2- by 1-1/4-inch		1,870	1,920	2,150	12.3	3.8	B51873
Do.	do.	T	1-1/4-inch by 0		1,820	1,930	2,180	15.3	4.1	B51874
De Gasperi	Cherokee	M		1	2,000	2,040	2,090	8.9	2.5	B52005
Do.	do.	T	Run-of-mine		1,930	2,000	2,190	8.7	2.3	B52007
De Gasperi Coal Company	do.	T	3-inch lump		2,020	2,060	2,570	9.9	5.3	D49974
Do.	do.	T	3- by 1-1/4-inch		2,040	2,080	2,290	11.4	5.3	D49975
Do.	do.	T	1-1/4-inch by 0		2,020	2,040	2,220	14.7	4.7	D49976
Eagle Cherokee	Bevier	M		2	2,430	2,530	2,620	13.9	2.5	B2657 and B2658
Do.	do.	T	7- by 3-inch		2,480	2,530	2,600	13.7	2.6	D62293
Do.	do.	T	3- by 1-1/4-inch		2,070	2,130	2,180	15.3	2.7	D62294
Do.	do.	T	1-1/4-inch by 0		2,250	2,310	2,360	11.9	2.2	D62295
Martin and Black	Fort Scott	M		1	1,970	2,060	2,240	11.2	4.0	B2671
Western No. 15	Cherokee	M		3	1,940	2,220	2,300	11.2	4.4	A2434 to A2436
West Mineral (Cherokee Co.)										
P and M No. 17	Mineral	T	6- by 2-inch (W)		1,990	2,020	2,220	12.7	4.0	B51727
Do.	do.	T	2- by 1-1/4-inch (W)		1,900	1,980	2,210	13.6	4.2	B51728
Do.	do.	T	1-1/4- by 1-inch (W)		1,900	2,010	2,210	12.8	3.9	B51729
Do.	do.	T	1- by 5/16-inch (W)		1,890	2,010	2,220	12.8	3.8	B51730
Do.	do.	T	1-1/4-inch by 0 (W)		1,890	2,010	2,270	11.9	3.1	B51731
Labette County										
Oswego										
Vanduker	do.	M		2	2,120	2,190	2,300	7.1	3.2	B2663 and B2664
Leavenworth County										
Leavenworth										
Home No. 1	Leavenworth	M		3	1,940	1,980	2,030	8.4	2.7	A2563 to A2565
Linn County										
Pleasanton										
Green Valley	Cherokee	M		3	1,970	2,020	2,140	16.5	3.0	A2078 to A2080
Pleasanton	do.	M		3	1,970	2,070	2,160	16.0	3.0	A2218 to A2220
State Line	do.	T	Run-of-mine		1,990	2,040	2,220	20.2	3.9	A2141
Do.	do.	M		2	1,970	2,000	2,120	13.6	3.8	A2142 and A2143
Walthour	do.	M		3	1,940	1,980	2,100	13.4	3.1	A2074 to A2076
Tiger Station (Missouri)										
Tiger	Mulberry	T	8-inch lump		2,040	2,080	2,450	15.4	3.4	B52482
Do.	do.	T	8- by 3-inch (W)		2,010	2,090	2,450	11.7	3.1	B52483
Do.	do.	T	3- by 1-1/4-inch (W)		2,010	2,090	2,450	11.3	2.9	B52484
Do.	do.	T	1-1/4-inch by 0		2,030	2,160	2,480	22.2	3.4	B52485
Do.	do.	T	1-1/4-inch by 0 (W)		1,990	2,080	2,490	10.6	2.6	B52486

KENTUCKY—Eastern

Bell County										
Arjay										
Glendon	Straight Creek	T	4-inch lump		1,960	2,060	2,390	1.6	.8	80748
Do.	do.	T	2-inch by 0		2,060	2,310	2,510	5.2	1.0	80794
Do.	do.	T	4-inch by 0		1,990	2,090	2,390	2.2	.8	80795
Do.	do.	M		4	1,940	2,080	2,220	1.8	.8	81264 to 81267

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Bell County (Con.)										
Balkan										
Balkan	Creech (Mason)	M		7	2,260	2,520	2,620	4.5	1.0	81399 to 81405
Do.	do.	T	6-inch lump		2,160	2,470	2,680	3.7	.6	D83606
Do.	do.	T	6- by 3-inch		2,160	2,380	2,640	3.8	.8	D83607
Do.	do.	T	3- by 1-1/2-inch		2,180	2,500	2,680	5.6	.9	D83608
Do.	do.	T	1-1/2-inch by 0		2,210	2,460	2,630	8.6	1.0	D83609
Blanche										
Big Jim	Straight Creek	M		4	2,190	2,240	2,460	2.7	1.7	B95547 to B95550
Do.	do.	T	6-inch lump		2,200	2,260	2,380	1.5	.7	E34089
Do.	do.	T	6- by 3-inch		2,150	2,220	2,400	1.6	.7	E34090
Do.	do.	T	1- by 1/4-inch		2,100	2,220	2,440	2.8	.8	E34091
Do.	do.	T	1/4-inch by 0		2,140	2,210	2,370	5.1	.9	E34092
Cardinal										
Cardinal No. 1	Harlan	M		4	2,700	2,850	2,920	3.8	.8	83701 to 83704
Do.	do.	T	5-inch lump		2,650	2,720	2,820	3.8	.8	B42784
Do.	do.	T	5- by 2-1/2-inch		2,560	2,670	2,840	3.2	.8	B42785
Do.	do.	T	2-1/2- by 1-inch (W)		2,570	2,680	2,810	2.9	.7	B42786
Do.	do.	T	1- by 3/8-inch (W)		2,420	2,560	2,750	2.8	.8	B42787
Do.	do.	T	3/8-inch by 0		2,230	2,510	2,720	5.4	.9	B42788
Cardinal No. 2	do.	M		1	2,780	2,870	2,910+	4.7	.9	B42789
Cary										
Cary	Straight Creek	T	5-inch lump		1,960	2,140	2,570	1.0	.8	B39300
Do.	do.	T	5- by 2-1/2-inch		1,960	2,090	2,460	1.9	.9	B39301
Do.	do.	T	2-1/2- by 2-inch		1,970	2,140	2,550	3.0	.8	B39302
Do.	do.	T	2-inch by 0		2,100	2,340	2,640	4.7	.8	B39303
Cary No. 2	do.	M		4	1,980	2,100	2,170	2.2	.9	81269 to 81272
Colmar										
Amru	Mason	M		3	2,220	2,570	2,790	6.3	1.4	88851 to 88853
Do.	do.	T	Run-of-mine		2,360	2,510	2,740	4.3	1.2	C43894
Amru No. 3	do.	T	1- by 3/16-inch		2,170	2,510	2,630	4.8	1.3	D83154
Do.	do.	T	3/16-inch by 0		2,180	2,500	2,610	8.6	1.6	D83155
Davisburg										
Cairnes	do.	T	5-inch lump		2,740	2,810	2,910+	2.2	.7	B42412
Do.	do.	T	5- by 2-inch		2,630	2,680	2,880	2.1	.7	B42413
Do.	do.	T	2-inch by 0		2,460	2,620	2,840	4.5	.9	B42414
Field										
Crockett	Crockett	T	5-inch lump		2,150	2,340	2,620	2.5	.8	B39304
Do.	do.	T	5- by 2-1/2-inch		2,300	2,530	2,740	3.2	.8	B39305
Do.	do.	T	2-1/2-inch by 0		2,280	2,540	2,700	5.7	1.1	B39306
Red Bird	Red Bird	T	6-inch lump		2,230	2,440	2,770	2.6	.9	B44977
Do.	do.	T	6- by 2-1/2-inch		2,330	2,540	2,770	3.9	1.1	B44978
Do.	do.	T	2-1/2-inch by 0		2,540	2,700	2,830	8.9	1.1	B44979
Fonde										
Clear Fork No. 1	Mason	T	Run-of-mine		2,380	2,510	2,730	6.9	1.3	B41828
Clear Fork No. 2	do.	T	do.		2,110	2,440	2,580	8.3	1.1	B41938
Clear Splint No. 3	Sterling	T	6-inch lump		2,170	2,420	2,750	7.2	2.6	B41939
Do.	do.	T	6- by 4-inch		2,420	2,540	2,710	10.3	2.9	B41940

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Do.	do.	T	4- by 2-1/2-inch		2,130	2,450	2,670	10.1	3.3	B41941
Do.	do.	T	2-1/2-inch by 0		1,960	2,250	2,490	11.6	3.5	B41942
Fourmile										
Adalia	Straight Creek	T	5-inch lump		2,000	2,080	2,420	2.4	.8	B42078
Do.	do.	T	5- by 2-inch		2,000	2,060	2,420	2.6	.8	B42079
Do.	do.	T	2-inch by 0		2,000	2,230	2,510	4.6	.8	B42080
Belva	do.	T	6-inch lump		2,100	2,160	2,290	2.2	.9	B44480
Do.	do.	T	6- by 2-inch		1,940	2,020	2,450	1.9	.8	B44481
Do.	do.	T	2-inch by 0		2,110	2,170	2,470	4.2	.6	B44482
New Straight Creek No. 1	do.	M		2	2,030	2,390	2,580	4.7	.9	88855 and 88856
Black Rose	Dean	T	4-inch lump		2,910+	-	-	2.9	.6	D45058
Do.	do.	T	4-inch by 0		2,780	2,910+	-	7.6	.7	D45059
Hanby										
Hanby	Straight Creek	T	5-inch lump		1,970	2,120	2,710	1.4	.7	B44980
Do.	do.	T	5- by 2-1/2-inch		2,070	2,130	2,540	2.7	.9	B44981
Do.	do.	T	2-1/2-inch by 0		2,200	2,350	2,680	7.0	.8	B44982
Hignite										
Hignite	Lower Hignite	T	3-inch lump		2,550	2,670	2,870	2.2	.6	B41702
Do.	do.	T	3-inch by 0		2,490	2,590	2,800	2.2	.7	B41703
Hulen										
Long Ridge	Mason	T	1-3/4-inch lump		2,050	2,200	2,560	6.6	2.9	B42781
Do.	do.	T	1-3/4-inch by 0		2,060	2,310	2,590	10.3	3.2	B42782
Luce	do.	T	Run-of-mine		2,000	2,180	2,570	4.8	2.3	B45105
Insull (Harlan County)										
Insull	Creech (Mason)	T	5-inch lump		2,570	2,630	2,760	3.0	.8	D83610
Do.	do.	T	5-inch by 0		2,570	2,680	2,820	6.3	.8	D83611
Kettle Island										
Pioneer	Straight Creek	M		5	2,120	2,230	2,400	3.1	.9	A84244 to A84248
Do.	do.	T	5-inch lump		2,090	2,240	2,470	2.9	1.8	B42086
Do.	do.	T	5- by 2-inch		1,970	2,080	2,520	4.2	1.5	B42087
Do.	do.	T	2-inch by 0		2,010	2,180	2,490	5.5	1.3	B42088
Pioneer No. 1	do.	T	5-inch lump		2,080	2,130	2,470	2.3	1.9	D44377
Do.	do.	T	5- by 2-1/2-inch		2,050	2,180	2,520	2.6	1.2	D44378
Do.	do.	T	2-1/2-inch by 0		2,050	2,210	2,470	5.1	1.3	D44379
Logmont										
Crystal	Poplar Lick	M		4	2,470	2,640	2,700+	10.9	2.7	82067 to 82070
Middlesboro										
Atlas	Lower Hignite	M		4	2,520	2,670	2,860	4.5	.8	B44722 to B44725
Do.	do.	T	8-inch lump		2,380	2,570	2,800	4.5	.6	B41621
Do.	do.	T	8- by 5-inch		2,430	2,650	2,850	4.1	.6	B41622
Do.	do.	T	5- by 3-1/2-inch		2,410	2,570	2,810	4.0	.6	B41623
Do.	do.	T	3-1/2- by 2-inch		2,130	2,450	2,660	4.5	.7	B41624
Do.	do.	T	2-inch by 0		2,480	2,650	2,890	7.1	.7	B41625
Better Coal Company	Jellico	T	4-inch lump		2,020	2,400	2,640	4.2	2.0	B45484
Do.	do.	T	4- by 2-1/2-inch		2,230	2,510	2,670	5.7	1.8	B45485
Do.	do.	T	2-1/2- by 1-1/4-inch		2,280	2,500	2,650	6.2	1.8	B45486
Do.	do.	T	1-1/4- by 1/4-inch		2,440	2,610	2,770	8.7	1.7	B45487
Do.	do.	T	1/4-inch by 0		2,450	2,660	2,830	13.3	1.9	B45488
Garmeada	Lower Hignite	T	5-1/2-inch lump		2,110	2,490	2,690	3.0	.8	B46642
Do.	do.	T	5- by 2-1/2-inch		2,040	2,240	2,550	3.2	.6	B46643
Do.	do.	T	2-1/2-inch by 0		2,120	2,440	2,650	6.9	.8	B46644
Do.	Red Springs	T	6-inch lump		2,600	2,730	2,910+	3.9	.7	D46218
Do.	do.	T	6- by 3-inch		2,730	2,860	2,910+	4.9	.5	D46219
Do.	do.	T	3- by 2-inch		2,860	2,910+	-	5.4	.6	D46220
Do.	do.	T	2-inch by 0		2,780	2,840	2,910+	7.1	.7	D46221
Kentucky Gem	Mason	T	4-inch lump		2,110	2,260	2,620	1.2	.7	B42081
Do.	do.	T	4- by 2-inch		2,010	2,250	2,550	1.7	.8	B42082
Do.	do.	T	2- by 1-1/4-inch		2,050	2,350	2,560	2.6	.9	B42083
Do.	do.	T	1-1/4- by 3/8-inch		2,210	2,520	2,650	5.2	1.0	B42084
Do.	do.	T	3/8-inch by 0		2,280	2,560	2,760	9.5	1.2	B42085
Premier	Jellico	M		4	2,180	2,420	2,540	4.6	.8	A50963 to A50966

1/ M, mine sample; T, tipple sample 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Bell County (Con.)										
Middlesboro										
Premier	Jellico	T	5-inch lump		2,070	2,200	2,450	4.8	.6	D46144
Do.	do.	T	5- by 3-inch		2,230	2,590	2,680	4.7	.7	D46145
Do.	do.	T	3-inch by 0		2,570	2,680	2,860	12.7	.7	D46146
S. & S.	do.	T	Run-of-mine		2,130	2,340	2,570	5.3	1.9	B39433
Pineville										
Arcadia	Straight Creek	T	do.		1,990	2,510	2,680	10.5	.7	80660
Arcadia No. 4	do.	M		4	2,200	2,330	2,420	5.0	.6	81274 to 81277
Bell Ridge	Mason	T	6-inch lump		2,200	2,560	2,630	2.8	.7	D65360
Do.	do.	T	6- by 3-inch		2,660	2,740	2,870	2.4	.7	D65361
Do.	do.	T	3- by 2-inch		2,420	2,590	2,680	2.2	.8	D65362
Do.	do.	T	2-inch by 0		2,420	2,590	2,680	6.8	.8	D65363
Do.	do.	M		3	2,340	2,490	2,620	2.7	.8	D66991 to D66993
Gray	Hazard No. 4	T	6-inch lump		2,220	2,380	2,570	4.8	1.2	E33751
Do.	do.	T	6- by 2-1/2-inch		2,460	2,510	2,720	3.9	1.1	E33752
Do.	do.	T	2-1/2-inch by 0		2,250	2,460	2,550	6.1	1.3	E33753
Gross	Mason	T	Run-of-mine		2,040	2,170	2,480	8.4	2.9	D47491
New Straight Creek	Straight Creek	M		4	2,130	2,220	2,480	2.7	1.1	81279 to 81282
Do.	do.	T	Run-of-mine		1,990	2,050	2,120	4.4	1.1	81390
Pruden (Tennessee)										
Back Creek	Mason	T	5-inch lump		2,350	2,520	2,740	2.2	.8	B41764
Do.	do.	T	8- by 5-inch		2,480	2,570	2,740	2.1	.8	B41765
Do.	do.	T	5- by 2-1/2-inch		2,110	2,400	2,560	2.7	1.1	B41766
Do.	do.	T	2-1/2-inch by 0 (W)		2,280	2,480	2,660	3.2	1.1	B41770
Ralston										
Pinnacle	Poplar Lick	T	4-inch lump		2,000	2,170	2,440	5.4	3.0	80831
Do.	do.	T	4- by 2-inch		2,060	2,340	2,480	6.8	3.2	80832
Do.	do.	T	2-inch by 0		1,880	2,440	2,560	11.6	2.9	80781
Do.	do.	M		4	2,180	2,510	2,600	8.9	2.9	82072 to 82075
Rella										
Bell	Straight Creek	T	3-inch lump		2,040	2,130	2,420	1.4	1.0	B94446
Do.	do.	T	3- by 2-inch		2,060	2,130	2,450	1.7	1.0	B94447
Do.	do.	T	7/8- by 1/4-inch		2,150	2,350	2,570	4.6	1.0	B94445
Do.	do.	T	1/4-inch by 0		2,040	2,190	2,550	4.7	1.0	B94448
Whitfield	do.	M		1	2,180	2,240	2,540	2.0	.9	B38249
Shamrock										
Edgewood No. 2	Sterling	M		4	2,320	2,430	2,530	9.7	3.1	82408 to 82411
Shamrock	Sandstone Parting	M		4	2,560	2,780	2,850	6.8	.9	82413 to 82416
Slusher										
Buffalo	-	T	6-inch lump		2,490	2,560	2,720	7.7	1.9	B42257
Do.	-	T	6- by 2-1/2-inch		2,140	2,440	2,740	9.9	2.1	B42258
Do.	-	T	2-1/2-inch by 0		2,220	2,560	2,630	11.5	2.4	B42259
Tejay										
Whipple	Mason	T	5-inch lump		2,090	2,210	2,470	3.7	2.4	B45106
Do.	do.	T	5- by 2-inch		2,090	2,210	2,580	4.9	2.7	B45107
Do.	do.	T	2-inch by 0		2,050	2,270	2,640	6.6	2.7	B45108

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Tinsley										
Commodore	Dean	T	Run-of-mine		2,910+	-	-	9.0	.7	B44871
Dean	do.	T	do.		2,910+	-	-	11.3	.8	B42415
Varilla										
Varilla	Upper Hance	T	2-inch lump		2,050	2,180	2,470	5.9	1.2	D45304
Do.	do.	T	2- by 1/4-inch		2,030	2,090	2,420	6.5	.9	D45305
Do.	Lower Hance	T	2-inch lump		2,000	2,210	2,570	2.7	.9	D45306
Do.	do.	T	2- by 1/4-inch		2,000	2,160	2,470	4.6	1.1	D45307
Boyd County										
Ashland										
Ellington Run	No. 7	T	7- by 3-inch		2,000	2,190	2,520	7.8	2.9	D99925
Do.	do.	T	1- by 1/4-inch		1,970	2,140	2,470	7.6	2.8	D99926
Do.	do.	T	1/4-inch by 0		2,190	2,510	2,650	20.8	2.8	D99927
Do.	do.	T	1-1/4-inch by 0		2,080	2,370	2,590	9.9	2.3	D99928
Sloan	do.	T	2-inch lump		2,010	2,200	2,550	8.0	3.5	B48253
Do.	do.	T	2- by 3/4-inch		2,010	2,210	2,530	9.7	3.7	B48254
Do.	do.	T	3/4-inch by 0		2,010	2,260	2,520	13.5	3.9	B48255
Coalton										
Coalton	do.	T	Run-of-mine		2,340	2,520	2,700	17.2	4.5	C74147
Do.	do.	T	6-inch lump		2,000	2,160	2,450	6.3	2.9	E50117
Do.	do.	T	6- by 3-inch (W)		2,030	2,160	2,470	6.7	2.9	E50118
Do.	do.	T	7/8- by 1/4-inch (W)		1,950	2,130	2,420	8.3	3.4	E50119
Do.	do.	T	1/4-inch by 0 (W)		1,970	2,080	2,390	11.5	3.9	E50120
Rush										
Rigsby	do.	T	2-inch lump		2,020	2,350	2,610	5.8	2.0	B47979
Do.	do.	T	2- by 1-1/4-inch		2,030	2,400	2,560	7.7	2.0	B47980
Do.	do.	T	1-1/4- by 3/8-inch		2,000	2,230	2,570	8.1	2.4	B47981
Do.	do.	T	3/8-inch by 0		2,000	2,110	2,520	12.5	2.9	B47982
Breathitt County										
Evanston										
Elkhorn No. 3	Elkhorn No. 3	M		1	2,040	2,130	2,360	2.5	.9	D93335
Do.	do.	T	5-inch lump		2,180	2,260	2,400	2.7	.7	E35712
Do.	do.	T	5- by 3-inch (W)		2,160	2,220	2,420	2.5	.8	E35713
Do.	do.	T	3- by 2-inch (W)		2,090	2,240	2,390	2.6	.7	E35714
Do.	do.	T	2- by 1-inch (W)		2,090	2,290	2,400	2.6	.7	E35715
Do.	do.	T	1- by 1/4-inch (W)		2,220	2,320	2,460	2.6	.7	E35716
Do.	do.	T	1/4-inch by 0		2,120	2,220	2,400	9.6	.8	E35717
Skyline	Winifred	T	5- by 1-1/4-inch (W)		2,910+	-	-	11.0	.7	D84763
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,910+	-	-	10.5	.8	D84764
Do.	do.	T	1-1/4-inch by 0 (W)		2,910+	-	-	7.5	.6	D84762
Skyline No. 23	Hindman	T	5-inch lump		2,910+	-	-	6.3	.8	E35718
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	7.3	.8	E35719
Do.	do.	T	3- by 1-1/4-inch (W)		2,910+	-	-	7.2	.8	E35720
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,870	2,910+	-	9.5	.8	E35721
Guage										
Mar Coal Company	No. 7	M		1	2,910+	-	-	6.8	.9	E40283
Tip Top (Magoffin County)										
Tip Top	Tip Top	M		1	2,890	2,910+	-	4.3	.8	D93339
Carter County										
Willard										
Willard	No. 7	T	Run-of-mine		2,150	2,500	2,780	7.8	1.9	B68620
Do.	do.	T	5-inch lump		2,090	2,440	2,690	5.9	1.9	B68622
Do.	do.	T	5- by 2-inch		2,090	2,430	2,690	7.9	2.0	B68621

1 M, mine sample; T, tipple sample. 2 W, washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Clay County										
Hima										
Baker	Horse Creek	T	5-inch lump		2,400	2,580	2,760	4.3	1.0	B47205
Do.	do.	T	5- by 2-1/2-inch		2,070	2,340	2,520	5.8	1.4	B47206
Do.	do.	T	2-1/2-inch by 0		2,060	2,290	2,520	6.1	1.4	B47207
Halstead Coal Company	do.	T	5-inch lump		2,400	2,580	2,780	4.6	.9	B47208
Do.	do.	T	5- by 2-inch		1,980	2,200	2,510	6.3	1.8	B47209
Do.	do.	T	2-inch by 0		2,060	2,340	2,520	7.7	1.5	B47210
Manchester Coal Company	do.	T	5-inch lump		1,970	2,180	2,450	9.1	2.6	B47722
Do.	do.	T	5- by 2-1/2-inch		1,960	2,130	2,520	7.2	2.4	B47723
Do.	do.	T	2-1/2-inch by 0		2,100	2,440	2,600	6.7	1.3	B47724
Marcum Coal Company	do.	T	5-inch lump		2,210	2,440	2,680	5.1	1.0	B47650
Do.	do.	T	5- by 2-inch		2,040	2,290	2,470	8.7	1.9	B47651
Do.	do.	T	2-inch by 0		2,200	2,380	2,680	8.8	1.2	B47652
Velma	do.	T	5-inch lump		1,990	2,260	2,530	5.6	1.7	B47202
Do.	do.	T	5- by 2-inch		1,990	2,220	2,490	6.0	1.9	B47203
Do.	do.	T	2-inch by 0		2,180	2,430	2,570	7.6	1.3	B47204
Manchester										
Beech Grove	Hazard No. 4	T	5-inch lump		2,870	2,910+	-	3.5	.7	D46338
Do.	do.	T	5- by 2-inch		2,730	2,840	2,890	4.7	.8	D46339
Do.	do.	T	2-inch by 0		2,700	2,780	2,840	5.2	.9	D46340
Bishop	do.	T	6-inch lump		2,600	2,700	2,800	3.3	.8	E76342
Do.	do.	T	6- by 3-inch		2,530	2,610	2,740	4.6	1.0	E76343
Do.	do.	T	3-inch by 0		2,780	2,880	2,910+	7.3	1.1	E76344
Greenleaf	do.	T	6-inch lump		2,300	2,490	2,680	6.8	1.4	E76076
Do.	do.	T	6- by 3-inch		2,670	2,740	2,780	5.2	1.0	E76077
Do.	do.	T	1- by 1/4-inch (W)		2,680	2,780	2,890	5.3	.9	E76078
Do.	do.	T	1/4-inch by 0 (W)		2,700	2,820	2,910	6.2	1.0	E76079
Gregory and White	do.	T	5-inch lump		2,630	2,740	2,910	4.3	.7	D83151
Do.	do.	T	5- by 2-inch		2,110	2,230	2,520	6.0	.9	D83152
Do.	do.	T	2-inch by 0		2,100	2,540	2,700	7.4	1.1	D83153
Robinson	Horse Creek	T	Run-of-mine		2,310	2,520	2,780	7.5	1.1	D46639
Rocket Coal Company	Hazard No. 4	T	7-inch lump		2,750	2,850	2,910	4.0	.8	D83147
Do.	do.	T	7- by 3-inch		2,600	2,740	2,840	4.5	.6	D83148
Do.	do.	T	1-1/4- by 1/4-inch		2,750	2,810	2,890	5.7	.9	D83149
Do.	do.	T	1/4-inch by 0		2,740	2,800	2,910+	6.9	.9	D83150
Rose Valley	do.	T	5-inch lump		2,910+	-	-	4.3	.7	E75916
Do.	do.	T	5- by 3-inch		2,910	2,910+	-	4.1	.7	E75917
Do.	do.	T	3- by 2-inch		2,860	2,910+	-	5.2	.8	E75918
Do.	do.	T	2-inch by 0		2,700	2,760	2,850	7.8	1.2	E75919
Sibert										
New Mary Francis	Horse Creek	T	5-inch lump		1,930	2,030	2,520	6.3	2.3	B47031
Do.	do.	T	5- by 2-inch		1,900	2,130	2,530	8.4	2.8	B47032
Do.	do.	T	2-inch by 0		1,930	2,310	2,500	7.2	1.5	B47033

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Floyd County										
Auxier										
Auxier No. 7	Millers Creek	T	5-inch lump		1,990	2,050	2,490	3.8	1.6	B48754
Do.	do.	T	5- by 3-inch		1,990	2,050	2,490	3.7	1.3	B48755
Do.	do.	T	3- by 2-inch		2,010	2,160	2,540	3.4	1.1	B48756
Do.	do.	T	2-inch by 0		2,070	2,210	2,480	5.6	1.0	B48757
David										
Princess Elkhorn	Elkhorn	T	5-inch lump		2,690	2,800	2,910+	2.8	.7	B70110
Do.	do.	T	5- by 2-inch		2,680	2,780	2,910+	3.1	.7	B70111
Do.	do.	T	2-inch by 0		2,680	2,800	2,900+	5.2	.8	B70112
Drift										
Beaver No. 1	Elkhorn No. 1	M		1	2,580	2,730	2,830	15.7	.8	A34593
Do.	Elkhorn No. 2	T	4-inch lump		2,170	2,430	2,690	4.3	1.2	B48843
Do.	do.	T	1- by 1/8-inch		2,050	2,260	2,530	5.7	1.5	B48844
Do.	do.	T	1/8-inch by 0		2,020	2,160	2,400	6.7	1.5	B48845
Turner No. 5	do.	M		3	2,240	2,360	2,630	3.0	1.9	D20607 to D20609
Fed										
Clear Creek	Elkhorn No. 3	T	5-inch lump		2,260	2,480	2,800	2.0	.6	B48896
Do.	do.	T	5- by 2-3/4-inch		2,270	2,470	2,800	3.3	.6	B48897
Do.	do.	T	1- by 5/16-inch		1,990	2,380	2,700	4.2	.7	B48898
Do.	do.	T	5/16-inch by 0		2,200	2,360	2,580	4.4	.7	B48899
Garrett										
Elkhorn No. 27	Elkhorn No. 1	T	6-inch lump		2,420	2,500	2,720	4.5	.8	B48758
Do.	do.	T	6- by 2-3/4-inch		2,370	2,460	2,680	4.1	.7	B48759
Do.	do.	T	1-1/2-inch by 0		2,320	2,410	2,600	4.0	.8	B48760
Do.	do.	T	3/8-inch by 0		2,310	2,370	2,490	5.6	.9	B48761
Goose Creek	do.	T	5-inch lump		2,490	2,650	2,830	3.6	.8	B46189
Do.	do.	T	5- by 2-inch		2,610	2,740	2,890	4.4	.7	B46190
Do.	do.	T	2-inch by 0		2,520	2,700	2,890	8.6	.8	B46191
Glo										
Glo No. 1	do.	T	5-inch lump		2,350	2,430	2,690	4.3	.9	B48810
Do.	do.	T	5- by 3-inch		2,340	2,470	2,810	4.3	.9	B48811
Do.	do.	T	2- by 1-1/4-inch		2,310	2,410	2,770	4.7	1.0	B48812
Do.	do.	T	1-1/4- by 3/8-inch		2,320	2,360	2,570	5.0	.8	B48813
Do.	do.	T	3/8-inch by 0		2,250	2,360	2,570	6.9	1.0	B48814
Harold										
Conn	do.	T	Run-of-mine		2,640	2,730	2,840	8.6	.8	D49047
Georgie-Ann	do.	T	do.		2,420	2,570	2,680	4.7	.9	D49048
Hale No. 1	do.	T	3-inch lump		2,360	2,600	2,790	2.5	.8	E50121
Do.	do.	T	1-1/4- by 7/8-inch		2,720	2,780	2,910	7.5	1.0	E50122
Do.	do.	T	7/8- by 1/4-inch		2,600	2,710	2,850	8.6	1.2	E50123
Do.	do.	T	1/4-inch by 0		2,610	2,690	2,810	12.6	1.2	E50124
Hale No. 2	Elkhorn No. 2	T	3-inch lump		2,220	2,400	2,650	3.2	1.1	E50125
Do.	do.	T	1-1/4- by 7/8-inch		2,400	2,610	2,700	6.6	1.2	E50126
Do.	do.	T	7/8- by 1/4-inch		2,540	2,620	2,710	7.7	1.4	E50127
Do.	do.	T	1/4-inch by 0		2,200	2,500	2,590	8.1	1.6	E50128
Harold	Elkhorn No. 1	T	6-inch lump		2,840	2,880	2,910+	3.7	.8	B46578
Do.	do.	T	6- by 2-inch		2,800	2,850	2,910+	3.9	.8	B46579
Do.	do.	T	2-inch by 0		2,690	2,760	2,810+	4.5	.8	B46580
Hi Hat										
Hi Hat	Elkhorn No. 3	T	3-1/4-inch lump		2,140	2,310	2,620	3.9	.7	C39629
Do.	do.	T	1-1/4- by 3/8-inch		2,180	2,380	2,570	7.0	.7	C39630
Do.	do.	T	3-1/4-inch by 0		2,190	2,410	2,570	7.1	.7	C39631
Lackey										
Central Elkhorn No. 5	Elkhorn No. 1	T	8-inch lump		2,300	2,480	2,700	6.7	.7	B48660
Do.	do.	T	do.		2,230	2,300	2,480	5.6	.8	B48661
Do.	do.	T	8- by 2-3/4-inch		2,160	2,250	2,440	6.1	.9	B48662
Do.	do.	T	2-3/4-inch by 0		2,160	2,250	2,430	6.5	1.0	B48663
Central Elkhorn No. 8	Elkhorn No. 3	T	5-inch lump		2,310	2,450	2,680	1.8	.7	B48612
Do.	do.	T	5- by 2-3/4-inch		2,350	2,510	2,730	2.3	.7	B48613
Do.	do.	T	2-3/4- by 1-1/2-inch		2,190	2,340	2,610	2.1	.8	B48614

1 M, mine sample. T, tipple sample. 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Floyd County (Con.)										
Lackey										
Central Elkhorn No. 8	Elkhorn No. 3	T	1-1/2- by 1/2-inch		2,210	2,360	2,610	2.1	.6	B48615
Do.	do.	T	1/2-inch by 0		2,130	2,350	2,580	2.9	.9	B48616
Wells Elkhorn No. 5	Wayland	M		1	2,640	2,760	2,840	7.0	.6	A34592
Lambert										
Lambert	Elkhorn No. 3	T	5-inch lump		2,150	2,230	2,520	3.4	.6	D47952
Do.	do.	T	1- by 1/4-inch		2,150	2,230	2,520	6.5	.6	D47953
Do.	do.	T	1/4-inch by 0		2,140	2,220	2,460	6.8	.5	D47954
Ligon										
Block	do.	T	6-inch lump		2,030	2,220	2,530	2.8	.5	B48900
Do.	do.	T	6- by 2-3/4-inch		2,050	2,220	2,530	3.2	.6	B48901
Do.	do.	T	2-3/4-inch by 0		2,200	2,260	2,490	3.9	.6	B48902
Manton										
Stephens	do.	T	5-inch lump		2,910	2,910+	-	3.5	.6	D47948
Do.	do.	T	5- by 3-inch		2,800	2,860	2,910+	3.2	.6	D47949
Do.	do.	T	1- by 1/4-inch		2,420	2,500	2,680	5.4	.8	D47950
Do.	do.	T	1/4-inch by 0		2,250	2,480	2,720	6.2	.7	D47951
Martin										
Martin No. 8-H	Elkhorn No. 2	T	5-inch lump		2,720	2,820	2,910+	4.1	.5	B46185
Do.	do.	T	5- by 2-3/4-inch		2,460	2,580	2,690	4.3	.7	B46186
Do.	do.	T	2-3/4-inch by 0		2,190	2,280	2,570	8.1	1.0	B46187
Do.	do.	T	1-1/4- by 1/4-inch		2,190	2,280	2,660	6.3	.9	B46188
Turner	do.	T	4-inch lump		2,380	2,570	2,740	3.3	.7	B48723
Do.	do.	T	4- by 2-inch		2,660	2,830	2,910+	4.1	.7	B48724
Do.	do.	T	2-inch by 0		2,550	2,670	2,880+	6.5	.7	B48725
Minnie										
Edgemont	do.	T	5-inch lump		2,650	2,760	2,910+	3.0	.7	B48966
Do.	do.	T	5- by 2-inch		2,560	2,670	2,810	5.6	1.1	B48967
Do.	do.	T	2-inch by 0		2,430	2,670	2,880	7.7	.9	B48968
Prestonburg										
Alley	Elkhorn No. 1	T	6-inch lump		2,590	2,690	2,910	5.8	1.3	B48553
Do.	do.	T	6- by 3-inch		2,240	2,510	2,650	5.9	1.7	B48554
Do.	do.	T	3- by 2-inch		2,140	2,490	2,620	5.6	1.6	B48555
Do.	do.	T	2-inch by 0		2,030	2,290	2,520	5.6	1.7	B48556
Hager	do.	T	do.		1,940	2,050	2,210	4.9	3.0	D95711
Purity Cannel	Van Lear (Millers Creek)	M		1	2,050	2,150	2,380	7.4	1.6	A34591
Wayland										
Elkhorn No. 28	Elkhorn No. 1	M		3	2,530	2,910+(1) 2,620 (2)	2,910+(1) 2,700 (1)	4.1	.8	D20477 to D20479
Do.	do.	T	5-inch lump		2,520	2,680	2,910+	3.8	.8	D65041
Do.	do.	T	1- by 1/4-inch		2,570	2,680	2,840	4.0	.7	D65042
Do.	do.	T	1/4-inch by 0		2,390	2,560	2,760	6.3	.7	D65043
Do.	do.	T	5- by 3-inch		2,900+	-	-	4.9	.7	D65044
Wayland	do.	T	5-inch lump		2,710	2,800	2,910+	4.4	.7	E30623
Do.	do.	T	5- by 3-inch (W)		2,380	2,580	2,770	4.8	.7	E30624
Do.	do.	T	1- by 1/4-inch (W)		2,500	2,610	2,860	4.3	.8	E30625

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Do.	do.	T	1/4-inch by 0		2,290	2,500	2,800	7.0	.8	E30626
Weeksbury										
Weeksbury No. 1	Elkhorn No. 3	T	5-inch lump		2,110	2,230	2,620	1.8	.6	B46581
Do.	do.	T	5- by 3-inch		2,080	2,180	2,550	2.1	.5	B46582
Do.	do.	T	3- by 2-inch		2,050	2,270	2,600	3.2	.5	B46583
Do.	do.	T	2-inch by 0		2,090	2,370	2,520	4.4	.5	B46584
Do.	do.	T	3/8-inch by 0		2,010	2,300	2,490	5.5	.6	B46585
Welco										
Central Elkhorn No. 6	Elkhorn No. 1	T	6-inch lump		2,700	2,770	2,910+	3.7	.9	B48481
Do.	do.	T	6- by 2-inch		2,410	2,530	2,630	4.2	1.0	B48482
Do.	do.	T	2-inch by 0		2,520	2,650	2,830	6.7	1.0	B48483
Wheelwright										
Wheelwright	Elkhorn No. 3	M		5	2,230	2,370	2,620	2.9	.7	C16347 to C16351
Greenup County										
Ashland (Boyd County)										
Gillum & Slone	No. 7	T	2-inch lump		2,010	2,220	2,540	7.4	3.1	B48250
Do.	do.	T	2- by 3/4-inch		2,010	2,220	2,520	10.6	3.6	B48251
Do.	do.	T	3/4-inch by 0		2,010	2,210	2,510	15.3	4.2	B48252
Harlan County										
Alva										
Black Star	Harlan	T	5-inch lump		2,470	2,570	2,780	2.9	.6	E31099
Do.	do.	T	5- by 3-inch (W)		2,390	2,520	2,600	2.9	.7	E31100
Do.	do.	T	1- by 1/4-inch (W)		2,310	2,430	2,620	2.8	.7	E31101
Do.	do.	T	1/4-inch by 0 (W)		2,220	2,420	2,680	6.0	.8	E31102
Black Star No. 1	do.	M		4	2,380	2,530	2,630	3.3	.8	90817 to 90820
Dixie Star	Elkhorn No. 3 (Kellioka)	T	5-inch lump		2,370	2,400	2,740	5.4	1.0	B42705
Do.	do.	T	5- by 2-1/2-inch		2,350	2,440	2,810	6.2	1.2	B42706
Do.	do.	T	1-1/4- by 3/8-inch		2,340	2,490	2,830	9.2	1.4	B42707
Do.	do.	T	2-1/2-inch by 0		2,260	2,470	2,790	9.2	1.2	B42708
Harlan	Harlan	T	5-inch lump		2,380	2,470	2,750	2.7	.6	D44217
Do.	do.	T	5- by 3-inch (W)		2,180	2,310	2,680	3.0	.9	D44218
Do.	do.	T	3- by 1-inch (W)		2,180	2,330	2,590	2.7	.8	D44219
Do.	do.	T	1- by 1/4-inch (W)		2,230	2,360	2,680	2.9	.7	D44220
Do.	do.	T	1/4-inch by 0 (W)		2,180	2,390	2,750	6.2	.8	D44221
Lucky Star	Hance	T	Run-of-mine		2,050	2,140	2,550	6.0	2.3	B42783
Bardo										
Bardo	Harlan	T	5-inch lump		2,620	2,720	2,870	3.1	.6	B45675
Do.	do.	T	5- by 3-inch		2,620	2,720	2,880	3.3	.7	B45676
Do.	do.	T	3- by 2-inch		2,390	2,590	2,820	3.8	.7	B45677
Do.	do.	T	1- by 3/16-inch		2,280	2,520	2,790	9.3	.9	B45678
Do.	do.	T	2-inch by 0		2,360	2,560	2,810	8.0	.7	B45679
Do.	do.	T	3/16-inch by 0		2,360	2,560	2,780	13.0	.7	B45680
Benito										
Benito	do.	T	5-inch lump		2,830	2,870	2,900+	6.6	.9	B38437
Do.	do.	T	5- by 2-inch		2,670	2,730	2,880	6.4	1.2	B38438
Do.	do.	T	2-inch by 0		2,210	2,510	2,710	7.8	1.2	B38439
Brookside										
Brookside	do.	M		5	2,570	2,730	2,850	4.5	1.1	81528 to 81532
Do.	do.	T	5-inch lump		2,700	2,750	2,900	5.6	.9	B37761
Do.	do.	T	5- by 2-inch		2,310	2,480	2,640	5.2	.9	B37762
Do.	do.	T	2-inch by 0		2,330	2,480	2,750	6.8	.9	B37763
Cawood										
Mill Ridge	do.	T	6-inch lump		2,350	2,550	2,750	3.0	.6	E33616
Do.	do.	T	6- by 3-inch		2,330	2,490	2,660	3.0	.7	E33617
Do.	do.	T	1-1/4- by 1/4-inch		2,320	2,460	2,660	3.4	.7	E33618
Do.	do.	T	1/4-inch by 0		2,390	2,550	2,740	9.3	.9	E33619

1 M, mine sample; T, tipple sample 2 W, washed

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State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Harlan County (Con.)										
Chevrolet										
Crown	Harlan	M		6	2,500	2,690	2,810	3.6	.8	81893 to 81898
Do.	do.	T	6-inch lump		2,650	2,710	2,800	3.3	.7	B46269
Do.	do.	T	6- by 2-inch		2,570	2,690	2,820	3.2	.7	B46270
Do.	do.	T	2- by 1-inch		2,280	2,430	2,720	4.1	.8	B46271
Do.	do.	T	1- by 1/4-inch		2,120	2,360	2,730	4.6	.8	B46272
Do.	do.	T	2-inch by 0		2,330	2,450	2,730	5.7	.9	B46273
Do.	do.	T	1/4-inch by 0		2,250	2,330	2,730	6.8	.8	B46274
Closplint										
Closplint	High Splint	M		4	2,250	2,360	2,660	3.5	.6	B25902 to B25905
Red Clover	do.	T	5-inch lump		2,150	2,200	2,650	3.9	.6	B38091
Do.	do.	T	5- by 2-1/2-inch		2,200	2,280	2,800	3.9	.4	B38092
Do.	do.	T	2-1/2- by 2-inch		2,240	2,370	2,740	4.2	.5	B38093
Do.	do.	T	2-inch by 0		2,190	2,330	2,700	4.9	.5	B38094
Coalgood										
Mary Helen	Harlan	M		6	2,560	2,790	2,910	3.3	.9	81739 to 81744
Do.	do.	T	6-inch lump		2,570	2,730	2,780	3.2	1.0	D44765
Do.	do.	T	6- by 3-inch		2,680	2,750	2,840	4.5	1.1	D44766
Do.	do.	T	3- by 2-inch		2,680	2,750	2,840	4.5	1.0	D44767
Do.	do.	T	2-inch by 0		2,470	2,570	2,840	7.8	1.0	D44768
Queen Mary	High Splint	T	6-inch lump		2,730	2,780	2,860	7.2	.7	D44758
Do.	do.	T	6- by 3-inch		2,540	2,600	2,800	5.6	.9	D44759
Do.	do.	T	3- by 2-inch		2,380	2,520	2,700	7.2	1.0	D44760
Do.	do.	T	2-inch by 0		2,360	2,500	2,710	9.7	1.1	D44761
Cornett										
Cornett	Harlan	T	5-inch lump (W)		2,540	2,690	2,870	5.8	1.0	D83850
Do.	do.	T	1- by 1/4-inch (W)		2,700	2,790	2,910+	4.3	1.0	D83851
Do.	do.	T	1/4-inch by 0 (W)		2,330	2,490	2,750	12.5	1.0	D83852
Coxton										
Kayu	do.	M		4	2,180	2,410	2,540	4.0	.8	81523 to 81526
Crummies										
Crummies	do.	T	5-inch lump		2,280	2,340	2,650	3.0	.8	B46488
Do.	do.	T	5- by 3-inch		2,350	2,460	2,780	3.0	.7	B46489
Do.	do.	T	2-inch by 0		2,210	2,430	2,680	6.4	.9	B46490
Do.	Elkhorn No. 3 (Darby)	T	5-inch lump		2,130	2,260	2,600	2.1	.5	B46491
Do.	do.	T	5- by 3-inch		2,240	2,300	2,700	2.0	.5	B46492
Do.	do.	T	1- by 1/4-inch		2,220	2,270	2,610	3.4	.5	B46493
Do.	do.	T	1/4-inch by 0		2,150	2,250	2,570	5.2	.6	B46494
Do.	do.	T	1-1/4-inch by 0		2,150	2,240	2,580	3.7	.5	B46495
Darby No. 2	do.	M		5	2,110	2,200	2,530	2.2	.5	A88270 to A88272 and A88296 and A88297
Elcomb										
Elcomb	Harlan	T	6-inch lump		2,850	2,890	2,910+	4.5	.7	B38666
Do.	do.	T	6- by 3-inch		2,810	2,870	2,910+	4.1	.7	B38667
Do.	do.	T	3- by 3/4-inch		2,760	2,840	2,920+	6.0	.8	B38668

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Do.	do.	T	3/4-inch by 0		2,540	2,670	2,840	7.7	1.0	B38669
Do.	Mason (Creech)	T	6-inch lump		2,770	2,820	2,910+	7.0	1.0	B38670
Do.	do.	T	6- by 3-inch		2,790	2,840	2,920+	6.3	.9	B38671
Do.	do.	T	3- by 3/4-inch		2,720	2,800	2,910+	8.2	.9	B38672
Do.	do.	T	3/4-inch by 0		2,690	2,780	2,910	8.4	1.0	B38673
Evarts										
Bailey Darby No. 1	Elkhorn No. 3 (Kellioka)	T	5-inch lump		2,100	2,420	2,620	3.8	1.5	D65364
Do.	do.	T	7/8- by 1/4-inch		2,000	2,250	2,520	4.7	1.8	D65365
Do.	do.	T	1/4-inch by 0		2,050	2,310	2,570	6.3	1.7	D65366
Big Red	Elkhorn No. 3 (Darby)	T	7/8- by 1/4-inch		2,200	2,380	2,620	3.7	.7	E47301
Do.	do.	T	1/4-inch by 0		2,190	2,290	2,600	6.9	1.3	E47302
Dartmont	High Splint	T	5-inch lump		2,420	2,570	2,690	3.8	.6	D96958
Do.	do.	T	5- by 3-inch		2,380	2,570	2,690	3.8	.8	D96959
Do.	do.	T	1-1/4- by 1/4-inch		2,580	2,620	2,780	5.4	.7	D96960
Do.	do.	T	1/4-inch by 0		2,380	2,550	2,680	7.6	.9	D96961
Harlan No. 1	Elkhorn No. 3 (Darby)	M		4	2,220	2,420	2,660	3.7	.8	81534 to 81537
Darbyton	do.	T	5-inch lump		2,340	2,480	2,810	2.7	.7	B37550
Do.	do.	T	5- by 3-inch		2,350	2,510	2,800	3.5	.7	B37551
Do.	do.	T	3-inch by 0		2,270	2,420	2,790	5.6	.7	B37552
River Ridge	Elkhorn No. 3 (Kellioka)	T	7/8- by 1/4-inch		2,080	2,180	2,490	6.3	2.3	D43996
Do.	do.	T	1/4-inch by 0		2,080	2,260	2,550	8.0	2.2	D43997
Yocum Creek	do.	T	5-inch lump		2,010	2,190	2,500	4.1	1.8	B38410
Do.	do.	T	5- by 2-inch		1,970	2,220	2,590	5.9	2.2	B38411
Do.	do.	T	2-inch by 0		2,000	2,230	2,560	7.7	2.2	B38412
Gano										
Dixie	Elkhorn No. 3 (Darby)	T	6-inch lump		2,310	2,460	2,680	2.2	.7	B37757
Do.	do.	T	6- by 3-inch		2,350	2,480	2,740	2.4	.7	B37758
Do.	do.	T	1- by 1/8-inch		2,320	2,470	2,720	3.2	.7	B37759
Do.	do.	T	1/8-inch by 0		2,180	2,350	2,700	4.4	.7	B37760
Gray's Knob										
Charlotte	Harlan	T	6-inch lump		2,540	2,660	2,870	3.6	1.0	E31815
Do.	do.	T	6- by 3-inch		2,650	2,750	2,880	5.7	1.1	E31816
Do.	do.	T	1- by 1/4-inch		2,680	2,760	2,880	5.0	1.0	E31817
Do.	do.	T	1/4-inch by 0		2,360	2,500	2,620	5.6	1.1	E31818
Mill Creek	-	T	4-inch lump		2,510	2,850	2,900	7.4	.7	81178
Do.	-	T	1-1/2-inch by 0		2,480	2,710	-	10.1	1.0	81179
Do.	-	M		6	2,580	2,710	2,760	8.4	1.0	81693, 81733 to 81737
Guffey										
Diamond Ashless	Elkhorn No. 3 (Kellioka)	T	2-inch lump		2,000	2,310	2,530	5.0	1.7	B38712
Do.	do.	T	2-inch by 0		2,020	2,280	2,510	10.5	2.0	B38713
Harcrow										
Harcrow	Harlan	T	5-inch lump		2,170	2,390	2,630	5.2	.9	B38605
Do.	do.	T	5- by 2-inch		2,510	2,580	2,780	5.3	1.0	B38606
Do.	do.	T	2-inch by 0		2,190	2,410	2,640	7.9	1.2	B38607
Harlan										
Bowling	do.	T	Run-of-mine		2,680	2,850	2,900	4.4	.8	81727
Lenarue	do.	T	6-inch lump		2,570	2,760	2,910+	4.1	1.0	B45893
Do.	do.	T	6- by 2-3/4-inch		2,570	2,710	2,890	5.3	1.3	B45894
Do.	do.	T	2-3/4-inch by 0		2,430	2,680	2,890	5.8	1.2	B45895
Do.	do.	T	Run-of-mine		2,520	2,660	2,790	5.0	1.1	E47303
Malcomson	No. 6 Elkhorn	T	6-inch lump		2,630	2,730	2,900+	4.4	.8	B38714
Do.	do.	T	6- by 2-inch		2,710	2,760	2,900+	6.4	1.0	B38715
Do.	do.	T	2-inch by 0		2,150	2,490	2,670	11.5	1.8	B38716
R. C. Tway	Harlan	T	3-inch lump		2,500	2,680	2,850	3.2	.7	81031

1/ M, mine sample; T, tipple sample 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Harlan County (Con.)										
Harlan										
R. C. Tway	Harlan	T	3- by 2-inch		2,560	2,850	2,900	3.4	.7	81032
Do.	do.	T	2-inch by 0		2,570	2,800	2,910	5.4	.7	81033
Do.	do.	M		5	2,630	2,820	2,900	3.3	.7	82061 to 82065
Yocum Creek No. 1	Elkhorn No. 3 (Kellioka)	T	7-inch lump		2,020	2,450	2,600	3.5	1.9	D64991
Do.	do.	T	7/8- by 1/4-inch		2,000	2,420	2,620	4.9	1.4	D64992
Do.	do.	T	1/4-inch by 0		2,080	2,420	2,680	9.5	1.4	D64993
High Splint										
Harlan No. 1	Harlan	M		4	2,620	2,750	2,840	5.8	1.2	81694 to 81696 and 81753
High Splint	High Splint	M		4	2,440	2,840	2,940	6.3	.7	81698 to 81701
Low Splint	Mason (Low Splint)	M		5	2,480	2,570	2,720	4.3	.7	A88556 to A88560
Insull										
Insull	Mason (Creech)	T	5-inch lump		2,430	2,540	2,760	3.1	.6	B42252
Do.	do.	T	5- by 3-inch		2,280	2,490	2,690	2.7	.6	B42253
Do.	do.	T	3- by 2-inch		2,150	2,420	2,640	3.1	.7	B42254
Do.	do.	T	2-inch by 0		2,100	2,370	2,550	4.5	.8	B42255
Do.	do.	T	1-1/4-inch by 0		2,120	2,280	2,600	4.9	.8	B42256
Kenvir										
Great Heart No. 30	Elkhorn No. 3 (Darby)	M		3	2,110	2,230	2,390	3.9	.7	A42640 to A42642
Do.	do.	T	5-inch lump		2,230	2,280	2,520	2.0	.6	D45991
Do.	do.	T	5- by 3-inch		2,210	2,280	2,520	3.4	.5	D45992
Do.	do.	T	3- by 2-inch		2,130	2,280	2,520	3.5	.5	D45993
Do.	do.	T	1- by 1/4-inch		2,100	2,260	2,520	4.5	.6	D45994
Do.	do.	T	1/4-inch by 0		2,130	2,280	2,470	5.5	.6	D45995
Great Heart No. 31	do.	T	5-inch lump		2,030	2,080	2,390	2.2	.4	D43998
Do.	do.	T	5- by 3-inch		2,050	2,150	2,420	2.1	.5	D43999
Do.	do.	T	3- by 2-inch		2,080	2,150	2,420	2.2	.4	D44000
Do.	do.	T	1- by 1/4-inch		2,130	2,180	2,420	4.6	.3	D44001
Do.	do.	T	1/4-inch by 0		2,130	2,180	2,420	6.6	.4	D44002
Kitts										
Clover Fork	Harlan	T	6-inch lump		2,500	2,610	2,780	2.9	.7	B38717
Do.	do.	T	6- by 5-inch		2,620	2,690	2,870	3.2	.7	B38718
Do.	do.	T	5- by 2-1/2-inch		2,500	2,590	2,760	3.3	.8	B38719
Do.	do.	T	2-1/2- by 2-inch		2,490	2,610	2,790	3.4	.6	B38720
Do.	do.	T	2-inch by 0		2,230	2,470	2,680	5.7	.8	B38721
Golden Ash	do.	M		4	2,460	2,590	2,670	4.0	.7	81518 to 81521
Rex	do.	M		4	2,460	2,640	2,710	2.9	.9	81513 to 81516
Lejunior										
Berger	Elkhorn No. 3 (Darby)	T	5-inch lump		2,160	2,220	2,740	2.6	.5	B38034
Do.	do.	T	5- by 2-1/2-inch		2,100	2,180	2,550	2.8	.6	B38035
Do.	do.	T	4-inch by 0		2,160	2,310	2,690	3.9	.5	B38036
Do.	do.	T	2-1/2-inch by 0		2,090	2,260	2,540	3.6	.6	B38037
Do.	do.	T	1-1/4- by 1/4-inch		2,150	2,280	2,640	3.2	.5	B38038

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Do.	do.	T	1/4-inch by 0		2,070	2,230	2,640	5.0	.6	B38039
Berger No. 1	Harlan	M		4	2,530	2,660	-	6.0	1.2	81688 to 81691
Blue Hearts	Elkhorn No. 3 (Darby)	T	5-inch lump		2,230	2,390	2,770	2.3	.6	B37689
Do.	do.	T	5- by 3-inch		2,180	2,310	2,750	2.5	.7	B37690
Do.	do.	T	3- by 2-inch		2,250	2,410	2,760	2.9	.7	B37691
Do.	do.	T	2-inch by 0		2,200	2,370	2,730	3.6	.7	B37692
Clover Gap	Harlan	T	6-inch lump		2,710	2,800	2,910	7.0	.9	B38095
Do.	do.	T	6- by 2-1/4-inch		2,690	2,730	2,890	5.9	1.1	B38096
Do.	do.	T	2-1/4-inch by 0		2,430	2,610	2,840	8.7	1.0	B38097
Liggett										
Kellioka	Elkhorn No. 3 (Kellioka)	T	6-inch lump		2,520	2,710	2,810	7.0	.9	C43622
Do.	do.	T	6- by 2-inch		2,620	2,700	2,870	8.1	.9	C43623
Do.	do.	T	2-inch by 0		2,730	2,800	2,880	12.5	1.1	C43624
Liggett	Harlan	T	5-inch lump		2,070	2,260	2,650	3.2	.6	B45974
Do.	do.	T	5- by 2-inch		2,190	2,370	2,620	2.8	.6	B45975
Do.	do.	T	2-inch by 0		2,190	2,380	2,640	4.5	.7	B45976
Mahan Ellison	Elkhorn No. 3 (Darby)	M		5	2,420	2,520	2,800	6.3	1.1	A87921 to A87925
Do.	Harlan	T	6-inch lump		2,630	2,720	2,850	3.2	.6	B45866
Do.	do.	T	6- by 5-inch		2,510	2,710	2,860	3.3	.7	B45867
Do.	do.	T	5- by 2-1/2-inch		2,580	2,700	2,840	3.5	.7	B45868
Do.	do.	T	1-1/4- by 3/8-inch		2,260	2,410	2,760	5.6	.8	B45869
Do.	do.	T	2-1/2-inch by 0		2,350	2,530	2,840	6.0	.7	B45870
Do.	do.	T	3/8-inch by 0		2,350	2,510	2,780	9.8	.8	B45871
Perkins Harlan No. 1	do.	M		4	2,340	2,580	2,690	2.4	.8	81703 to 81706
Louellen										
Corlew	High Splint	T	5-inch lump		2,360	2,440	2,680	3.3	.5	D83846
Do.	do.	T	5- by 3-inch		2,470	2,600	2,810	3.5	.5	D83847
Do.	do.	T	3- by 3/16-inch		2,560	2,680	2,800	5.2	.5	D83848
Do.	do.	T	3/16-inch by 0		2,290	2,550	2,760	6.9	.6	D83849
Cornett	Harlan	T	6-inch lump		2,630	2,740	2,870	3.3	.8	B37963
Do.	do.	T	6- by 2-inch		2,640	2,750	2,850	4.9	.9	B37964
Do.	do.	T	2-inch by 0		2,340	2,420	2,770	6.0	1.1	B37965
Lynch										
Lynch No. 30	Elkhorn No. 3	M		1	2,160	2,460	2,630	4.9	.7	A48976
Do.	do.	M		3	2,570	2,730	2,910+(2) 2,800 (1)	4.7	.6	B56496 to B56498
Lynch No. 31	do.	M		2	2,750	2,850	2,910+(1) 2,870 (1)	3.4	.7	B56494 and B56495
Mary Alice										
Mary Alice	Harlan	T	5-inch lump		2,680	2,730	2,820	2.8	.7	D44500
Do.	do.	T	5- by 3-inch		2,700	2,710	2,890	3.6	.4	D44501
Do.	do.	T	1- by 1/4-inch		2,570	2,620	2,710	5.6	.5	D44502
Do.	do.	T	1/4-inch by 0		2,390	2,550	2,650	7.3	.6	D44503
Molus										
Molus	do.	T	5-inch lump		2,540	2,690	2,850	2.6	.7	B46266
Do.	do.	T	5- by 2-1/2-inch		2,540	2,670	2,800	2.8	.7	B46267
Do.	do.	T	2-1/2-inch by 0		2,280	2,510	2,760	3.7	.7	B46268
Path Fork										
Path Fork No. 1	do.	M		3	2,140	2,320	2,550	3.6	.8	D21183 to D21185
Ridgeway										
Ridgeway	do.	T	6-inch lump		2,600	2,690	2,860	4.7	1.0	B37879
Do.	do.	T	6- by 2-inch		2,570	2,680	2,830	4.4	1.0	B37880
Do.	do.	T	2-inch by 0		2,270	2,350	2,700	4.5	1.1	B37881
Splint										
Splint	Elkhorn No. 3	T	6-inch lump		2,140	2,390	2,670	2.5	.6	B38386
Do.	do.	T	6- by 2-inch		2,300	2,540	2,690	3.2	.7	B38387
Do.	do.	T	2-inch by 0		2,200	2,390	2,650	4.1	.7	B38388
Silver Darby	Elkhorn No. 3 (Darby)	T	6-inch lump		2,910+	-	-	2.8	.6	E1294

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Harlan County (Con.)										
Splint										
Silver Darby	Elkhorn No. 3 (Darby)	T	6- by 3-inch		2,870	2,910+	-	2.1	.5	E1295
Do.	do.	T	7/8- by 1/4-inch		2,850	2,890	2,910+	2.1	.5	E1296
Do.	do.	T	1/4-inch by 0		2,580	2,730	2,760	5.7	.7	E1297
Three Point										
Three Point	Harlan	T	5-inch lump		2,260	2,400	2,640	3.3	.8	B46180
Do.	do.	T	5- by 2-1/2-inch		2,270	2,440	2,740	3.5	.6	B46181
Do.	do.	T	2-1/2- by 1-1/4-inch		2,180	2,400	2,660	4.5	.7	B46182
Do.	do.	T	1-1/4- by 1/4-inch		2,180	2,400	2,680	6.3	.7	B46183
Do.	do.	T	1/4-inch by 0		2,170	2,350	2,680	7.5	.6	B46184
Totz										
Totz	do.	T	8-inch lump		2,800	2,880	2,910+	5.3	.8	E31610
Do.	do.	T	8- by 3-1/2-inch		2,870	2,910+	-	5.2	.8	E31611
Do.	do.	T	1-1/8- by 1/4-inch		2,700	2,750	2,850	5.5	1.0	E31612
Do.	do.	T	1/4-inch by 0		2,320	2,460	2,680	6.7	1.0	E31613
Twila										
Creech	Wallins	T	5-inch lump		2,280	2,410	2,610	2.6	.6	B45670
Do.	do.	T	5- by 2-1/2-inch		2,360	2,540	2,700	2.8	.7	B45671
Do.	do.	T	1- by 1/4-inch		2,360	2,600	2,740	4.6	.9	B45672
Do.	do.	T	2-1/2-inch by 0		2,400	2,610	2,740	5.5	.9	B45673
Do.	do.	T	1/4-inch by 0		2,110	2,480	2,650	7.9	1.2	B45674
Creech No. 1	do.	M		6	2,150	2,270	2,440	3.5	.8	81900 to 81905
Creech No. 2	do.	M		4	2,260	2,500	2,590	5.0	1.0	82056 to 82059
Verda										
Bear Branch	Harlan	T	5-inch lump		2,860	2,910+	-	3.8	.9	B37518
Do.	do.	T	5- by 2-1/2-inch		2,640	2,760	2,880	4.4	.9	B37519
Do.	do.	T	2-1/2-inch by 0		2,720	2,790	2,900	7.5	1.0	B37520
Marathon	Elkhorn No. 3 (Darby)	T	5-inch lump		2,150	2,210	2,570	2.2	.5	B37521
Do.	do.	T	5- by 2-1/2-inch		2,160	2,210	2,530	2.3	.5	B37522
Do.	do.	T	2-1/2- by 2-inch		2,180	2,250	2,610	2.7	.5	B37523
Do.	do.	T	2- by 1-inch		2,190	2,270	2,590	3.3	.5	B37524
Do.	do.	T	1- by 1/8-inch		2,170	2,240	2,520	3.4	.6	B37525
Do.	do.	T	1/8-inch by 0		2,020	2,100	2,390	4.8	.6	B37526
Yancey										
Darby	do.	M		1	2,640	2,840	2,970	8.1	.8	A80821
Harlan No. 4	Harlan	M		8	2,260	2,420	2,630	3.4	.7	A80822 to A80829
Yancey	do.	T	5-inch lump		2,150	2,230	2,540	3.2	.8	B38920
Do.	do.	T	5- by 2-inch		2,020	2,160	2,520	4.1	.8	B38921
Do.	do.	T	2- by 1-inch		2,060	2,240	2,550	3.7	.7	B38922
Do.	do.	T	1- by 5/16-inch		2,020	2,210	2,560	4.8	.7	B38923
Do.	do.	T	5/16-inch by 0		2,020	2,150	2,540	6.4	.8	B38924
Zero No. 2	do.	M		3	2,310	2,400	2,590	3.7	.7	A86624 to A86626
Zero No. 4	do.	M		2	2,190	2,270	2,410	3.2	.8	A86621 and A86622

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Jackson County										
Sand Gap										
Bond No. 5	Bond	T	5-inch lump		2,530	2,660	2,850	4.2	1.2	B68716
Do.	do.	T	5- by 2-inch		2,310	2,540	2,800	5.9	1.5	B68717
Do.	do.	T	2-inch by 0		2,660	2,720	2,900	8.8	1.4	B68718
Jackson County No. 2	do.	T	5-inch lump		2,530	2,660	2,870	3.7	1.2	B68719
Do.	do.	T	5- by 2-inch		2,400	2,550	2,640	6.8	1.7	B68720
Do.	do.	T	2-inch by 0		2,580	2,680	2,810	12.3	1.6	B68721
Do.	do.	T	2- by 1-inch		2,190	2,470	2,590	7.9	1.9	B68722
Do.	do.	T	3/8-inch by 0		2,740	2,820	2,910+	16.0	1.3	B68723
Pennington	-	T	5-inch lump		2,480	2,560	2,740	4.2	1.1	B47875
Do.	-	T	5- by 2-inch		2,260	2,540	2,700	6.5	1.6	B47876
Do.	-	T	2- by 1-1/4-inch		2,400	2,580	2,750	8.7	1.7	B47877
Do.	-	T	1-1/4- by 3/8-inch		2,400	2,620	2,790	8.7	1.4	B47878
Do.	-	T	3/8-inch by 0		2,620	2,730	2,920	9.7	1.2	B47879
Superior	Dean	M		1	2,580	2,620	2,730	8.1	1.3	B11441
Waneta										
Wren	Upper	T	4-inch lump		2,000	2,220	2,620	4.5	2.1	B47880
Do.	do.	T	4- by 2-inch		1,960	2,290	2,630	7.6	3.0	B47881
Do.	do.	T	2-inch by 0		2,040	2,290	2,480	15.1	3.9	B47882
Do.	Lower	T	4-inch lump		-	2,910+	-	3.5	.6	B47883
Do.	do.	T	4- by 2-inch		-	2,910+	-	8.0	.6	B47884
Johnson County										
Hager Hill										
Hager Hill	Miller Creek	T	3-inch lump		2,660	2,710	2,780	3.1	.7	C74659
Do.	do.	T	3- by 1-1/4-inch		2,050	2,310	2,490	3.6	.8	C74660
Do.	do.	T	1-1/4-inch by 0		2,500	2,680	2,710	4.7	.6	C74661
Paintsville										
Adams Coal Company	Miller Creek (Van Lear)	M		1	2,180	2,260	2,470	3.0	1.8	D39544
Albert Blanton	do.	M		1	2,080	2,180	2,440	9.4	2.9	D39549
Do.	Fire Clay (Hazard No. 4)	M		1	2,470	2,550	2,780	7.6	1.2	D39550
Blanton & Rice No. 3	Elkhorn No. 3	T	5-inch lump		2,770	2,850	2,890	2.7	.9	E50131
Do.	do.	T	5- by 2-1/2-inch		2,700	2,750	2,870	3.1	.8	E50132
Do.	do.	T	2-1/2-inch by 0		2,580	2,680	2,800	4.6	.9	E50133
John Crum	Fire Clay (Hazard No. 4)	M		1	1,970	2,000	2,360	22.7	7.0	D39553
Cyclone	Millers Creek	T	3/4- by 1/4-inch (W)		2,000	2,310	2,390	3.8	1.2	E50129
Do.	do.	T	1/4-inch by 0		2,020	2,220	2,520	5.8	1.2	E50130
Davy Daniels	Haddix	M		1	2,680	2,730	2,840	5.4	1.2	D39552
Jess Fairchild	Millers Creek	M		1	2,080	2,330	2,530	9.2	2.7	D85247
Paris Fairchild	do.	M		1	2,000	2,100	2,520	3.1	1.6	D85250
Alfred Johnson	do.	M		1	2,030	2,100	2,420	4.8	1.1	D39554
Jumbo No. 1	do.	T	5-inch lump		2,030	2,200	2,540	3.5	1.3	B48444
Do.	do.	T	1- by 1/8-inch		2,130	2,430	2,590	2.4	.7	B48445
Do.	do.	T	1/8-inch by 0		2,420	2,530	2,640	3.5	.8	B48446
Wade McKenzie	Fire Clay (Hazard No. 4)	M		1	2,650	2,750	2,850	2.4	.6	D85249
Mahan Brothers	Millers Creek	M		1	2,570	2,650	2,710	3.2	.6	D39551
Middle Fork No. 2	do.	T	1- by 1/4-inch (W)		2,030	2,090	2,360	5.6	2.7	D98972
Mountain Coal Company	do.	M		1	2,710	2,760	2,870	2.2	.6	D39545
Northeast Coal Company	do.	M		1	2,570	2,620	2,710	2.5	.5	D39546
Crate Rice	Hazard No. 4	M		1	2,470	2,660	2,820	14.6	1.3	D85251
H. L. Riff	Millers Creek	M		1	2,090	2,240	2,370	5.1	2.6	D39548
Ed Sawyers	do.	M		1	1,940	2,000	2,390	7.9	5.5	D39555
B. B. Short	do.	M		1	2,510	2,660	2,760	3.5	.8	D85248
Witten Coal Company	do.	M		1	2,030	2,080	2,440	4.1	1.5	D39547

1/ M, mine sample; T, tipple sample 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Johnson County (Con.)										
Riceville										
Jennys Creek	Millers Creek	T	7/8- by 1/4-inch		1,880	2,000	2,190	7.5	2.9	D95205
Do.	do.	T	1/4-inch by 0		1,940	2,060	2,360	13.0	3.5	D95206
Thealka										
Thealka No. 3	do.	T	5-inch lump		2,010	2,180	2,500	5.1	3.0	B48256
Do.	do.	T	5- by 3-inch		2,010	2,180	2,520	3.4	1.7	B48257
Do.	do.	T	3- by 2-inch		2,010	2,180	2,540	3.9	1.6	B48258
Do.	do.	T	1- by 3/8-inch		2,010	2,190	2,520	3.8	1.5	B48259
Do.	do.	T	3/8-inch by 0		2,130	2,450	2,590	4.6	1.1	B48260
Van Lear										
Consolidation No. 155	do.	M		6	2,190	2,270	2,500	2.9	1.2	B2789 to B2794
Do.	do.	T	5-inch lump		1,960	2,150	2,520	3.3	1.2	B48439
Do.	do.	T	5- by 3-inch		1,970	2,100	2,480	3.9	1.2	B48440
Do.	do.	T	3- by 2-inch		1,990	2,160	2,530	3.7	1.2	B48441
Do.	do.	T	1- by 1/8-inch		1,990	2,170	2,540	4.1	1.2	B48442
Do.	do.	T	1/8-inch by 0		2,140	2,220	2,420	6.3	1.0	B48443
Knott County										
Anco										
Anco	Hindman (No. 9)	T	5-inch lump		2,080	2,330	2,590	5.0	2.2	B36644
Do.	do.	T	5- by 2-inch (W)		2,110	2,420	2,580	7.6	2.5	B36645
Do.	do.	T	5- by 1-1/4-inch		2,120	2,410	2,550	8.1	2.5	B36646
Do.	do.	T	2- by 1-1/4-inch (W)		2,480	2,540	2,700	8.5	2.0	B36647
Do.	do.	T	1-1/4-inch by 0		2,400	2,470	2,700	8.7	2.3	B36648
Bluebird Coal Company No. 6	do.	M		1	2,260	2,470	2,620	8.6	2.5	D54488
Hardburly (Perry County)										
Hardburly	Hazard No. 7	M		5	-	2,910+(5)	-	5.3	.6	B82235 to B82239
Hindman										
Blue Bird	Hindman	T	5-inch lump		2,740	2,840	2,910+	5.3	1.1	D64885
Do.	do.	T	5- by 3/8-inch (W)		2,710	2,820	2,900+	7.6	1.9	D64886
Do.	do.	T	3/8-inch by 0		2,000	2,350	2,470	14.3	3.5	D64887
Do.	do.	T	5- by 2-inch (W)		2,710	2,800	2,880	8.1	1.9	D64888
Do.	do.	T	2-inch by 0		2,500	2,560	2,650	10.2	2.6	D64889
Kodak (Perry County)										
Meem-Haskins	Fire Clay (Hazard No. 4)	T	5-inch lump		2,320	2,430	2,680	3.5	.8	B36470
Do.	do.	T	5- by 2-inch		2,370	2,510	2,730	3.5	.8	B36471
Do.	do.	T	2-inch by 0		2,590	2,680	2,850	6.7	.8	B36472
Vicco (Perry County)										
Knott	Hazard No. 9	T	6-inch lump		2,760	2,860	2,910+	6.5	1.8	E53497
Do.	do.	T	6- by 2-inch (W)		2,650	2,730	2,870	7.9	2.0	E53498
Do.	do.	T	2- by 3/8-inch (W)		2,540	2,610	2,740	7.5	2.1	E53499
Do.	do.	T	3/8-inch by 0		1,970	2,140	2,440	10.9	3.3	E53500
Do.	do.	T	2- by 3/8-inch (W)		2,490	2,590	2,750	7.3	2.0	E53501

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Knox County										
Anchor										
Anchor Block	Dean	T	5-inch lump		2,650	2,770	2,910	3.8	.7	B42512
Do.	do.	T	5- by 2-inch		2,690	2,770	2,900	4.6	.7	B42513
Do.	do.	T	2-inch by 0		2,800	2,890	2,910+	8.2	.8	B42514
Fayette-Jellico	do.	T	5-inch lump		2,750	2,790	2,910	4.0	.9	B39332
Do.	do.	T	5- by 2-inch		2,670	2,750	2,910	5.3	1.0	B39333
Do.	do.	T	2-inch by 0		2,870	2,910+	-	9.7	.9	B39334
Artemus										
Myrick	Blue Gem	T	5-inch lump		2,310	2,410	2,470	5.1	3.8	B39335
Do.	do.	T	5- by 2-inch		1,980	2,060	2,240	5.7	3.5	B39336
Do.	do.	T	2-inch by 0		1,950	2,050	2,250	6.7	3.1	B39337
Corbin										
Ward	Jellico	T	Run-of-mine		2,360	2,470	2,700	6.4	1.3	D47003
Elys										
Stewart	Straight Creek	T	6-inch lump		2,420	2,450	2,480	5.8	4.0	D44374
Do.	do.	T	6- by 2-1/2-inch		2,420	2,470	2,620	5.4	4.1	D44375
Do.	do.	T	2-1/2-inch by 0		2,000	2,040	2,150	6.3	2.4	D44376
Gray										
Bertha	Jellico	T	Run-of-mine		2,450	2,590	2,770	8.3	1.4	B46730
Callahan	do.	T	do.		2,130	2,500	2,620	11.6	2.1	D83146
Kayjay										
Kayjay	Dean	T	6-inch lump		2,710	2,780	2,880	5.2	.7	C38085
Do.	do.	T	6- by 3-inch		2,740	2,820	2,910+	5.3	.7	C38086
Do.	do.	T	3- by 2-inch		2,790	2,850	2,910+	5.1	.8	C38087
Do.	do.	T	2-inch by 0		2,800	2,860	2,910+	9.7	1.1	C38088
Trosper										
Power	do.	M		4	2,580	2,770	2,890	6.5	.8	81241 to 81244
Trosper	do.	T	Run-of-mine		2,390	2,800	2,910	13.9	.8	80658
Do.	do.	T	4-inch lump		-	2,740	-	5.1	.8	80659
Do.	do.	T	Run-of-mine		2,540	2,680	2,820	11.2	1.2	B39434
Laurel County										
Lily										
Osborne No. 1	Jellico	T	4-inch lump		1,970	2,130	2,560	4.3	2.2	B46801
Do.	do.	T	4- by 2-inch		1,970	2,270	2,500	6.9	2.6	B46802
Do.	do.	T	2-inch by 0		2,050	2,320	2,500	10.9	3.2	B46803
Osborne No. 2	do.	T	4-inch lump		2,430	2,590	2,710	3.3	1.0	B46804
Do.	do.	T	4- by 2-inch		2,130	2,410	2,600	5.9	1.6	B46805
Do.	do.	T	2-inch by 0		2,220	2,410	2,690	14.8	2.1	B46806
London										
O. H. Black	-	T	5-inch lump		2,150	2,230	2,620	2.4	1.2	D46640
Do.	-	T	5- by 2-inch		2,090	2,230	2,450	3.6	1.6	D46641
Do.	-	T	2-inch by 0		2,180	2,380	2,620	10.4	2.2	D46642
Cole Fuel Company	Laurel	T	4-inch lump		1,870	2,140	2,520	5.3	2.0	B46912
Do.	do.	T	4- by 2-inch		1,850	2,150	2,500	5.5	1.9	B46913
Do.	do.	T	2-inch by 0		1,970	2,160	2,520	7.7	2.4	B46914
John Gaber	do.	T	Run-of-mine		1,960	2,080	2,340	8.9	4.6	D65448
Trace No. 1	Horse Creek	T	5-inch lump		1,930	2,100	2,440	4.4	1.7	E53502
Do.	do.	T	5- by 2-inch		1,930	2,040	2,310	5.5	2.7	E53503
Do.	do.	T	2-inch by 0		1,930	2,070	2,400	7.8	3.0	E53504
Williams-Goode	-	T	5-inch lump		2,100	2,360	2,630	2.6	1.1	B46909
Do.	-	T	5- by 2-inch		2,460	2,570	2,640	4.5	1.1	B46910
Do.	-	T	2-inch by 0		2,570	2,670	2,870	12.1	1.4	B46911
Pittsburg										
Woody	Colony	T	Run-of-mine		2,040	2,260	2,600	9.1	3.4	B47201

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Leslie County										
Bear Branch										
New Big Creek	Hazard No. 4	T	6-inch lump		2,750	2,800	2,890	2.9	.8	D45176
Do.	do.	T	6- by 2-inch		2,510	2,670	2,760	4.3	.7	D45177
Do.	do.	T	2-inch by 0		2,620	2,680	2,800	7.9	1.0	D45178
Do.	do.	T	6-inch lump		2,740	2,820	2,910+	3.1	.6	E32128
Do.	do.	T	6- by 2-inch		2,860	2,910+	-	5.5	.9	E32129
Do.	do.	T	2-inch by 0		2,750	2,810	2,910	8.1	1.1	E32130
Cinda										
Outcrop No. 75 H 30	No. 4 Rider	M		1	2,910+	-	-	11.2	1.0	D22953
Outcrop No. 75 H 33	Haddix	M		1	2,620	2,730	2,910	8.3	.6	D22943
Outcrop No. 75 H 34	do.	M		1	2,700	2,760	2,890	7.1	.6	D22942
Outcrop No. 75 H 35	No. 4 Rider	M		1	2,450	2,540	2,640	8.7	2.5	D21257
Outcrop No. 75 H 36	do.	M		1	2,260	2,360	2,550	16.9	4.3	D21258
Combs (Perry County)										
Smith No. 1	Hazard No. 4	T	5-inch lump		2,520	2,650	2,750	3.1	.8	E30216
Do.	do.	T	5- by 4-inch		2,540	2,660	2,780	4.8	.7	E30217
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,740	2,850	2,910+	6.5	.8	E30218
Do.	do.	T	1/4-inch by 0		2,700	2,760	2,910+	8.9	.9	E30219
Cutshin										
Outcrop 75 H 49	do.	M		1	2,420	2,490	2,650	4.7	.7	D21253
Outcrop 75 H 50	do.	M		1	2,420	2,570	2,700	3.6	.9	D21252
Dryhill										
Outcrop 74 I 18	do.	M		1	2,780	2,840	2,910+	11.4	.7	D28596
Garrard										
Mountain Laurel	do.	T	6-inch lump		2,520	2,570	2,700	2.9	.7	E30335
Do.	do.	T	6- by 3-inch		2,630	2,730	2,810	4.3	.7	E30336
Do.	do.	T	1-1/4- by 1/4-inch		2,570	2,700	2,780	6.1	.8	E30337
Do.	do.	T	1/4-inch by 0		2,570	2,690	2,770	5.1	.7	E30338
Do.	do.	T	2-inch by 0		2,680	2,740	2,820	8.4	1.0	E30339
Hazard (Perry County)										
Pound Mill	-	T	4-inch lump		2,830	2,910+	-	6.3	.8	D65045
Do.	-	T	2-inch by 0		2,840	2,910+	-	6.8	.9	D65046
Hima (Clay County)										
North Star	Hazard No. 4	T	5-inch lump		2,310	2,460	2,650	3.2	.8	E34631
Do.	do.	T	5- by 2-1/2-inch		2,180	2,400	2,540	3.8	.9	E34632
Do.	do.	T	2-1/2-inch by 0		2,070	2,330	2,510	8.1	1.2	E34633
White	do.	T	5-inch lump		2,230	2,470	2,530	5.2	.8	E32605
Do.	do.	T	5- by 2-1/2-inch		2,500	2,570	2,730	4.4	.9	E32606
Do.	do.	T	2-1/2-inch by 0		2,190	2,340	2,500	7.4	1.1	E32607
Hyden										
Baker & Johnson	do.	M		1	2,840	2,890	2,910+	5.5	.7	D9788
Citation	do.	T	6-inch lump		2,670	2,810	2,910+	5.2	.8	E30061
Do.	do.	T	6- by 3-inch		2,620	2,710	2,810	5.2	.8	E30062
Do.	do.	T	7/8- by 1/4-inch		2,710	2,800	2,900	6.6	1.0	E30063
Do.	do.	T	1/4-inch by 0		2,680	2,750	2,820	7.4	1.3	E30064
Cutshin No. 1	do.	M		1	2,780	2,890	2,910+	5.4	.8	D9789
Fortney Coal Company	No. 4 Rider	M		1	2,800	2,860	2,910+	11.4	1.0	D10417

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Garrard	Hazard No. 4	M		1	2,380	2,470	2,650	4.0	.7	D21259
Do.	do.	T	6-inch lump		2,730	2,780	2,820	6.0	.6	D45906
Do.	do.	T	6- by 2-1/2-inch		2,600	2,650	2,700	4.3	.7	D45907
Do.	do.	T	2-1/2-inch by 0		2,050	2,280	2,570	7.5	1.0	D45908
Halstead	do.	T	Run-of-mine		2,650	2,730	2,800	6.9	1.1	D46643
Hoskins	Whitesburg	M		1	2,190	2,310	2,520	6.2	1.4	D9790
Leslie Clay	Hazard No. 4	M		1	2,420	2,550	2,680	4.8	.9	D8850
Lewis Coal Company	do.	M		1	2,360	2,520	2,700	4.0	.8	D10415
Marlen Coal Company	do.	M		1	1,970	2,050	2,360	7.4	1.9	D21261
P. & H. Coal Company	do.	M		1	2,730	2,840	2,910	4.6	.8	D9791
Shelby Moseley	do.	M		1	2,570	2,760	2,840	15.8	2.2	D9792
Short & Smith	do.	M		1	2,360	2,520	2,620	5.0	1.4	D8848
Sizemore	do.	M		1	2,030	2,100	2,440	3.3	.6	D28595
Joseph Turner	do.	M		1	2,680	2,710	2,800	4.7	.7	D10416
Wilson	do.	M		1	2,590	2,660	2,730	10.9	1.6	D7529
Prospect No. 73 G 60	No. 4 Rider	M		1	2,390	2,520	2,610	4.5	1.5	D28589
Outcrop No. 73 H 20	do.	M		1	2,780	2,840	2,910+	12.2	1.2	D20617
Do.	do.	M		1	1,970	2,080	2,440	9.7	3.0	D21260
No. 73 H 21	Hazard No. 4	M		1	2,000	2,130	2,490	5.6	.7	D20618
Outcrop No. 73 H 22	do.	M		1	2,620	2,680	2,760	4.8	1.1	D20619
Outcrop No. 73 H 23	No. 4 Rider	M		1	2,430	2,510	2,690	10.3	1.4	D20616
Hyden										
No. 73 H 23 B	Hazard No. 4	M		1	2,910+	-	-	7.7	.7	D20615
Outcrop No. 73 H 65	do.	M		1	2,080	2,340	2,550	4.9	1.3	D20613
Outcrop No. 73 I 2	No. 4 Rider	M		1	2,410	2,460	2,600	13.1	.8	D21262
Outcrop No. 74 G 13	do.	M		1	2,230	2,310	2,700	3.1	.7	D7530
No. 74 G 15	do.	M		1	2,840	2,890	2,910+	10.4	1.3	D9793
Outcrop No. 74 G 40	Hazard	M		1	2,840	2,910+	-	11.5	.9	D28600
Outcrop No. 74 G 58	Hazard No. 4	M		1	2,100	2,440	2,650	6.6	1.2	D28605
Outcrop No. 74 G 63	do.	M		1	2,840	2,910+	-	5.9	.9	D28606
Outcrop No. 74 G 65	do.	M		1	2,840	2,910+	-	5.5	.8	D28607
Outcrop No. 74 H 8	do.	M		1	1,940	2,150	2,380	12.7	1.6	D10418
Outcrop No. 74 H 16	do.	M		1	2,780	2,910	2,910+	5.6	.7	D20622
Outcrop No. 74 H 21	Amburgy	M		1	2,890	2,910+	-	8.3	.6	D9794
Outcrop No. 74 H 49	Hazard No. 4	M		1	2,710	2,780	2,860	5.3	.7	D10419
Outcrop No. 74 H 61	do.	M		1	2,840	2,910	-	5.5	.8	D20620
No. 74 H 64	do.	M		1	2,050	2,150	2,420	7.2	1.1	D20614
No. 74 H 70	do.	M		1	2,000	2,130	2,490	5.6	1.2	D20621
No. 74 H 77	do.	M		1	2,100	2,470	2,570	5.9	.7	D20624
No. 74 H 79	No. 4 Rider	M		1	2,780	2,840	2,910+	10.5	1.2	D20625
No. 74 H 81	do.	M		1	2,910+	-	-	12.5	1.0	D20632
Outcrop No. 74 H 86	Whitesburg	M		1	2,030	2,130	2,420	21.5	4.7	D20631
Outcrop No. 74 H 87	No. 4 Rider	M		1	2,840	2,890	2,910+	8.7	.8	D20630
No. 74 H 90	do.	M		1	2,700	2,800	2,860	10.3	.8	D20626
No. 74 H 101	Amburgy	M		1	2,910+	-	-	5.1	.7	D28608
No. 74 H 102	Hazard No. 4	M		1	2,550	2,650	2,840	3.9	.8	D28609
Outcrop No. 74 I 1	Amburgy	M		1	2,000	2,150	2,500	8.5	3.0	D8849
No. 74 I 15	No. 4 Rider	M		1	2,380	2,520	2,680	13.4	2.9	D28593
No. 74 I 16	Amburgy	M		1	2,030	2,180	2,470	2.1	.7	D28594
No. 74 I 34	do.	M		1	2,260	2,340	2,470	4.8	.7	D28597
No. 74 J 3	Hazard No. 6	M		1	2,910+	-	-	8.5	.7	D28610
No. 75 I 33	do.	M		1	2,570	2,780	2,890	7.0	.6	D28611
Manchester (Clay County)										
Lewis No. 1	Hazard No. 4	T	6-inch lump		2,440	2,600	2,720	2.9	.8	E30213
Do.	do.	T	6- by 3-inch		1,920	2,170	2,510	3.3	1.2	E30214
Do.	do.	T	2-inch by 0		2,000	2,140	2,420	5.9	1.7	E30215
Mary Gail No. 3	do.	T	5-inch lump		2,440	2,550	2,800	2.5	.7	E29612
Do.	do.	T	5- by 3-inch		2,720	2,780	2,890	4.1	.6	E29613
Do.	do.	T	1- by 1/4-inch (W)		2,690	2,750	2,910+	4.8	.7	E29614
Do.	do.	T	1/4-inch by 0		2,330	2,400	2,650	9.1	.9	E29615

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Leslie County (Con.)										
Smilax										
No. 75 H 39	Hazard No. 4	M		1	2,680	2,780	2,890	8.6	.9	D20633
Do.	No. 4 Rider	M		1	2,210	2,360	2,590	22.7	4.4	D20634
No. 75 H 40	Hazard No. 4	M		1	2,910+	-	-	3.9	.7	D20635
No. 75 H 42	do.	M		1	2,680	2,750	2,840	4.7	.7	D21242
No. 75 H 46	do.	M		1	2,730	2,870	2,910+	8.7	.9	D21243
No. 75 H 48	No. 4 Rider	M		1	2,730	2,840	2,910+	11.5	1.4	D21254
No. 75 H 61	do.	M		1	2,420	2,490	2,550	11.4	2.9	D21255
Thousandsticks										
No. 73 I 14	Hazard No. 4	M		1	2,840	2,910	2,910+	7.2	.9	D22945
No. 73 I 19	No. 4 Rider	M		1	2,310	2,550	2,620	11.0	1.8	D22944
No. 73 I 22	Amburgy	M		1	2,050	2,170	2,480	6.0	1.9	D22946
Wooton										
Budwiser Coal Company	Hazard No. 4	M		1	2,780	2,890	2,910+	4.4	.6	D22950
Cutshin Coal Company	do.	M		2	2,470	2,540	2,700	3.6	.8	D21263 and D21264
Maggard & Grayhart	do.	M		1	2,620	2,700	2,750	4.6	.9	D21265
Smith Wooton No. 1	do.	M		2	2,490	2,600	2,740	6.3	1.1	D22947 and D22948
Outcrop No. 74 I 2	do.	M		1	2,660	2,730	2,840	5.1	.7	D22951
Outcrop No. 74 I 6	do.	M		1	2,910+	-	-	5.0	.6	D22949
Outcrop No. 74 I 50	do.	M		1	2,780	2,870	2,910+	5.9	.7	D28598
No. 75 H 9	do.	M		1	2,780	2,910	2,910+	5.2	.7	D20623
Outcrop No. 75 H 15	No. 4 Rider	M		1	2,600	2,700	2,750	14.4	1.6	D20628
Outcrop No. 75 H 17	do.	M		1	2,840	2,910+	-	14.1	1.0	D20627
No. 75 H 21	do.	M		1	2,910+	-	-	9.4	.9	D20629
Outcrop No. 75 H 27	Hindman	M		1	2,680	2,750	2,860	8.6	1.5	D21245
Outcrop No. 75 H 27A	Hazard No. 6	M		1	2,620	2,700	2,910+	21.3	.8	D21244
Outcrop No. 75 H 54	Hazard No. 4	M		1	2,420	2,520	2,650	8.5	1.3	D21246
Outcrop No. 75 H 55	Hazard No. 7	M		1	2,890	2,910+	-	10.1	1.7	D21247
Outcrop No. 75 I 8	Nasa	M		1	2,890	2,910+	-	3.6	.6	D21256
No. 75 I 10	Hazard No. 4	M		1	2,620	2,760	2,890	6.6	.7	D21248
No. 75 I 11	do.	M		1	2,150	2,380	2,520	6.0	1.2	D21249
No. 75 I 11 No. 4	do.	M		1	2,890	2,910+	-	6.1	.8	D21250
Outcrop No. 75 I 17	do.	M		1	2,570	2,680	2,800	4.2	.7	D21251
No. 75 I 55	Hazard	M		1	2,890	2,910+	-	12.2	.7	D28614
No. 75 I 56	Haddix	M		1	2,910+	-	-	5.4	.7	D28615
No. 75 I 57	Hindman	M		1	2,510	2,610	2,760	12.9	2.0	D28616
Outcrop No. 75 I 62	Hazard No. 4	M		1	2,520	2,650	2,760	4.2	.7	D22952
Letcher County										
Banks										
Stamper Coal Company	No. 4	M		1	2,710	2,790	2,870	9.9	.8	D54495
Blackey										
Blair Fork	Leatherwood	T	5-inch lump		2,890	2,910+	-	4.5	.6	D64674
Do.	do.	T	5- by 3-inch		2,780	2,890	2,910+	4.6	.5	D64675
Do.	do.	T	3- by 1/4-inch (W)		2,780	2,860	2,910+	5.5	.5	D64676
Do.	do.	T	1/4-inch by 0		2,570	2,680	2,780	9.6	.6	D64677
Isabella	Hazard No. 4	M		1	-	2,390	-	7.7	.7	92672

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Kimball & Dixon	do.	M		1	2,840	2,870	2,910+	6.6	1.0	D54490
Carbon Glow										
Carbon Glow	do.	T	24- by 5-inch		2,380	2,500	2,660	3.3	.8	D32031
Do.	do.	T	5- by 2-inch		2,680	2,750	2,840	7.1	.7	D32032
Do.	do.	T	2-inch by 0		2,760	2,840	2,910+	9.8	.8	D32033
Do.	do.	T	5- by 3-inch		2,800	2,860	2,910+	6.3	.6	D32034
Do.	do.	T	1- by 3/8-inch		2,800	2,860	2,910+	7.4	.8	D32035
Do.	do.	T	3/8-inch by 0		2,780	2,840	2,910+	11.5	.9	D32036
Do.	do.	T	1-1/4-inch by 0		2,860	2,910+	-	8.6	.7	D32037
Deane										
Hendrix	Elkhorn No. 3	T	8- by 5-inch (W)		2,700	2,770	2,880	3.6	.8	E75920
Do.	do.	T	1- by 3/8-inch (W)		2,540	2,660	2,780	3.3	.9	E75921
Do.	do.	T	3/4- by 3/16-inch (W)		2,180	2,300	2,480	3.1	1.1	E75922
Do.	do.	T	3/8-inch by 0 (W)		2,190	2,310	2,630	3.6	1.0	E75923
Jenkins										
Consolidation No. 204	do.	M		3	2,230	2,450	2,600	3.1	.6	A58087 to A58089
Do.	do.	T	Run-of-mine		2,370	2,530	2,650	2.5	.6	A58091
Do.	do.	T	5-inch lump		2,440	2,580	2,860	3.1	.6	B36840
Do.	do.	T	5- by 2-inch		2,380	2,530	2,760	2.8	.6	B36841
Do.	do.	T	2-inch by 0		2,250	2,360	2,700	4.2	.5	B36842
Consolidation No. 206	do.	T	5-inch lump		2,590	2,680	2,860	3.4	.5	B36926
Do.	do.	T	5- by 2-inch		2,540	2,650	2,850	3.3	.5	B36927
Do.	do.	T	2- by 1-1/4-inch		2,420	2,570	2,800	3.0	.6	B36928
Do.	do.	T	1-1/4-inch by 0		2,260	2,420	2,720	4.5	.5	B36929
Kona										
Kona Coal Company	do.	T	Run-of-mine		2,140	2,250	2,580	5.8	1.7	D43820
Kona No. 2	do.	T	5-inch lump		2,450	2,580	2,770	2.7	.9	B37177
Do.	do.	T	5- by 2-inch		2,170	2,440	2,680	2.7	.9	B37178
Do.	do.	T	2-inch by 0		2,100	2,360	2,570	4.3	1.1	B37179
Do.	do.	T	1-1/4-inch by 0		2,490	2,640	2,810	5.5	1.0	B37180
McRoberts										
Consolidation No. 214	do.	T	5-inch lump		2,470	2,600	2,860	2.8	.6	B36868
Do.	do.	T	5- by 2-inch		2,270	2,380	2,750	2.9	.6	B36869
Do.	do.	T	2-inch by 0		2,260	2,330	2,620	4.7	.6	B36870
Millstone										
Elkhorn, Jr.	do.	T	5-inch lump		2,320	2,450	2,690	4.7	1.4	B37181
Do.	do.	T	5- by 1-3/4-inch		2,000	2,160	2,460	3.8	1.6	B37182
Do.	do.	T	1-3/4-inch by 0		1,930	2,090	2,530	5.0	2.2	B37183
Do.	do.	T	1/2-inch by 0		1,960	2,160	2,480	7.0	2.3	B37184
Laviers No. 2	do.	T	8-inch lump		2,490	2,570	2,780	3.3	1.0	B37030
Do.	do.	T	8- by 2-inch		2,410	2,510	2,740	3.7	1.1	B37031
Do.	do.	T	2-inch by 0		2,080	2,390	2,560	5.2	1.3	B37032
Neon										
Jackhorn	do.	T	5-inch lump		2,130	2,230	2,470	3.1	1.2	E30627
Do.	do.	T	5- by 3-inch		2,090	2,190	2,460	3.2	1.3	E30628
Do.	do.	T	1-1/4- by 1/4-inch		2,140	2,200	2,420	3.8	1.3	E30629
Do.	do.	T	1/4-inch by 0		2,130	2,200	2,420	4.7	1.3	E30630
Oven Fork										
Shady Side	Imboden	M		3	2,910+(3)	-	-	4.1	.9	D2410 to D2412
Premium										
Premium	Amburgy	T	20- by 5-inch		2,130	2,230	2,470	7.1	2.9	D32029
Do.	do.	T	5-inch by 0		2,030	2,230	2,490	11.7	4.5	D32030
Roxana										
Champion Coal Company	Van Lear	M		1	2,280	2,630	2,800	18.0	.7	A34594
Seco										
Seco No. 1	Elkhorn	T	5-inch lump		2,260	2,450	2,660	3.6	1.2	B36981
Do.	do.	T	5- by 2-inch		2,000	2,160	2,510	3.5	1.6	B36982
Do.	do.	T	2- by 1-1/4-inch		1,950	2,100	2,530	4.4	2.0	B36983
Do.	do.	T	1-1/4- by 3/8-inch		1,950	2,240	2,490	5.7	1.9	B36984
Do.	do.	T	3/8-inch by 0		2,080	2,350	2,580	7.2	1.6	B36985

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Letcher County										
Whitesburg										
Colly	Elkhorn No. 3	T	6-inch lump		2,730	2,810	2,910+	5.4	.8	E53230
Do.	do.	T	6- by 3-inch		2,480	2,590	2,750	4.6	1.3	E53231
Do.	do.	T	1-1/4- by 1/4-inch		2,510	2,660	2,760	4.7	1.2	E53232
Do.	do.	T	1/4-inch by 0		2,150	2,510	2,620	7.6	1.5	E53233
Elkhorn No. 6	do.	T	5-inch lump		2,210	2,310	2,460	2.8	1.0	D65037
Do.	do.	T	1- by 1/4-inch		2,150	2,260	2,470	4.0	1.2	D65038
Do.	do.	T	1/4-inch by 0		2,150	2,310	2,470	4.8	1.1	D65039
Do.	do.	T	5- by 3-inch		2,130	2,290	2,380	2.7	1.1	D65040
Glo-Elkhorn	do.	T	Run-of-mine		2,020	2,310	2,440	5.7	1.5	E35143
Star Elkhorn	Hazard No. 4	T	do.		2,780	2,850	2,910+	5.5	.8	E32131
Winters										
Winters No. 2	Elkhorn	T	5-inch lump		2,440	2,510	2,830	4.6	1.2	B37033
Do.	do.	T	2- by 5-inch		1,990	2,270	2,490	4.0	1.8	B37034
Do.	do.	T	2-inch by 0		1,950	2,230	2,520	6.7	2.1	B37035
Magoffin County										
Edna										
Outcrop	Haddix	M		1	2,810	2,910+	-	5.2	.8	D87741
Harper										
Outcrop	Fire Clay	M		1	2,390	2,500	2,700	5.9	1.9	D87740
Matthew (Morgan County)										
Outcrop	do.	M		1	2,430	2,550	2,680	21.5	2.1	D87739
Salyersville										
Davis	Hazard No. 6	M		1	2,910+	-	-	9.5	.9	E40284
Tiptop										
Outcrop	Hazard No. 7	M		1	2,910+	-	-	8.3	.8	D93344
Tiptop	Hindman	T	6-inch lump		-	2,910+	-	6.1	.8	B68580
Do.	do.	T	6- by 2-inch		2,850	2,910+	-	6.9	.9	B68581
Do.	do.	T	2-inch by 0		2,870	2,910+	-	9.6	.9	B68582
Do.	do.	T	2-3/4-inch lump		2,910+	-	-	7.4	.8	C74657
Do.	do.	T	2-3/4-inch by 0		2,910+	-	-	9.2	.9	C74658
McCreary County										
Barthell										
Stearns No. 1	No. 2	M		2	1,870	2,360	2,570	11.7	3.4	88171 and 88172
Blue Heron No. 18	No. 1	T	8-inch lump		2,260	2,340	2,710	3.9	1.4	B43041
Do.	do.	T	1- by 1/4-inch		2,250	2,480	2,630	7.4	1.9	B43042
Do.	do.	T	1/4-inch by 0		2,210	2,300	2,570	8.6	1.7	B43043
Blue Herron										
Blue Herron No. 18	No. 2	T	6-inch lump		1,940	2,100	2,450	9.9	3.2	E397
Do.	do.	T	6- by 4-inch		1,940	2,080	2,400	9.6	3.2	E398
Do.	do.	T	4- by 2-inch		1,940	2,010	2,250	10.4	3.8	E399
Do.	do.	T	2-inch by 0		1,940	2,050	2,280	13.3	4.1	E400
Co-Operative										
Co-Operative	No. 1	M		2	2,070	2,330	2,490	6.5	2.7	88858 and 88859

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Do.	No. 2	T	6-inch lump		1,950	2,150	2,460	11.9	4.0	B43122
Do.	do.	T	6-inch by 0		1,950	2,150	2,460	10.5	4.0	B43123
Oz										
Stearns No. 16	No. 1	T	6-inch lump		2,180	2,330	2,620	3.4	1.7	E704
Do.	do.	T	6- by 3-inch		2,630	2,690	2,730	7.7	1.8	E705
Do.	do.	T	3-inch by 0		2,630	2,680	2,730	12.1	2.6	E706
Do.	do.	T	5-inch lump		2,280	2,520	2,620	5.3	1.7	E707
Do.	do.	T	5- by 2-inch		2,510	2,600	2,680	9.0	2.3	E708
Do.	do.	T	2-inch by 0		2,570	2,700	2,800	10.7	2.3	E709
Pine Knott										
Campbell River Gem	River Gem	T	4-inch lump		2,090	2,160	2,470	7.3	2.8	E1178
Do.	do.	T	4- by 3-inch		2,080	2,230	2,360	10.0	5.4	E1179
Do.	do.	T	3-inch by 0		2,030	2,080	2,240	11.3	4.9	E1180
Shoopman										
Fidelity	No. 1	M		6	2,220	2,350	2,440	7.8	2.4	82631
Stearns										
Stearns A	do.	M		2	2,120	2,330	2,510	6.3	2.1	88861 and 88862
White Oak Junction										
White Oak No. 15	do.	T	Run-of-mine		2,570	2,670	2,840	4.7	.8	B43040
Worley										
Stearns No. 4	No. 1 1/2	T	5-inch lump		2,570	2,610	2,750	2.6	.5	E222
Do.	do.	T	5- by 3-inch		2,630	2,760	2,910+	3.0	.4	E223
Do.	do.	T	3- by 2-inch		2,710	2,790	2,910+	3.6	.6	E224
Do.	do.	T	2-inch by 0		2,740	2,840	2,910+	6.5	.6	E225
Do.	do.	M		5	2,500	2,640	-	4.7	.6	82643 to 82647
Worley No. 4	do.	T	5-inch lump		2,430	2,530	2,850	3.3	.6	B42970
Do.	do.	T	5- by 3-inch		2,460	2,560	2,870	4.0	.5	B42971
Do.	do.	T	3- by 2-inch		2,460	2,550	2,870	4.0	.5	B42972
Do.	do.	T	2-inch by 0		2,420	2,500	2,790	6.5	.6	B42973
Yamacraw										
Yamacraw No. 11	No. 1	T	6-inch lump		2,300	2,400	2,670	6.1	1.5	B42974
Do.	do.	T	6- by 2-inch		2,200	2,440	2,700	8.2	1.8	B42975
Do.	do.	T	2-inch by 0		2,180	2,320	2,600	8.9	1.9	B42976
Martin County										
Beauty										
Hysteam	Pond Creek	T	5-inch lump		2,350	2,400	2,570	5.7	2.0	B9316
Do.	do.	T	5- by 2-inch		2,050	2,240	2,470	7.3	2.2	B9317
Do.	do.	T	2-inch by 0		2,070	2,230	2,480	11.3	2.6	B9318
Naugatuck (West Virginia)										
Winco Block	Winifrede	T	4-1/2-inch lump		2,910+	-	-	4.7	.6	D51774
Do.	do.	T	4-1/2- by 3-inch (W)		2,910+	-	-	7.1	.6	D51775
Do.	do.	T	3- by 2-inch (W)		2,910+	-	-	6.8	.7	D51776
Do.	do.	T	2-inch by 0 (W)		2,910+	-	-	8.4	.7	D51777
Morgan County										
Caney										
Reed	Gas Cannel	M		1	1,970	2,080	2,360	14.1	1.7	D87745
Cannel City										
Jones	Cannel City	M		1	2,890	2,910+	-	7.2	.8	D87742
Richardson	do.	M		1	2,910+	-	-	6.4	.8	D77810
Kentucky Block No. 15	Van Lear	M		1	2,800	2,920	-	5.9	.7	A34596
Clearfield (Rowan County)										
Rush Branch	do.	M		1	2,260	2,540	2,760	14.1	.9	A34597
Index										
House Opening (E-4)	Hazard	M		1	2,910+	-	-	6.2	.7	D87743
Kermit (West Virginia)										
Earlston	Warfield	T	5-inch lump		2,140	2,260	2,410	4.9	2.1	B9319
Do.	do.	T	5-inch by 0		2,130	2,260	2,400	8.3	2.1	B9320
Lenox										
Adkins	Knob	M		1	2,520	2,660	2,780	9.5	2.0	D88290

1 M, mine sample; T, tipple sample. 2 W, washed.

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1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Morgan County (Con.)										
Lenox										
Drew Evans	Fireclay	M		1	2,590	2,720	2,820	16.0	1.7	D88289
Stacy Fork										
Carl Sebastian	Sebastian	M		1	2,910+	-	-	9.0	.7	A87746
White Oak										
House	Red Ash	M		1	2,910+	-	-	4.9	.9	A87744
Perry County										
Allias										
Columbus No. 4	Hazard No. 4	T	5-inch lump		2,040	2,140	2,590	3.9	1.3	B35848
Do.	do.	T	5- by 1-1/4-inch		2,200	2,340	2,670	3.9	1.0	B35849
Do.	do.	T	1-1/4-inch by 0		2,250	2,430	2,780	7.2	1.1	B35850
Do.	do.	M		3	2,680	2,750	2,910+(3)	3.1	.7	B81918 to B81920
Allock										
Allock	do.	T	5-inch lump		2,410	2,530	2,750	3.1	.9	B38242
Do.	do.	T	5- by 3-1/2-inch		2,310	2,480	2,800	3.5	.9	B38243
Do.	do.	T	3-1/2- by 1-1/4-inch		2,540	2,650	2,860	4.7	.8	B38244
Do.	do.	T	1-1/4- by 1/2-inch		2,670	2,760	2,900	7.6	.8	B38245
Do.	do.	T	2-inch by 0		2,560	2,610	2,790	6.4	.9	B38246
Do.	do.	T	1-1/4-inch by 0		2,770	2,820	2,920+	7.3	.8	B38247
Do.	do.	T	1/2-inch by 0		2,660	2,740	2,910+	8.9	.9	B38248
Perrone	Hazard No. 7	T	5-inch lump		2,870	2,910+	-	6.0	.6	B36418
Do.	do.	T	5- by 2-inch		2,740	2,840	2,920+	6.4	.8	B36419
Do.	do.	T	2-inch by 0		2,700	2,740	2,870	5.7	.8	B36420
Do.	Hazard No. 9	T	5-inch lump		2,060	2,460	2,590	4.6	2.2	E54027
Do.	do.	T	5- by 3-inch (W)		2,550	2,660	2,760	7.4	2.1	E54028
Do.	do.	T	3- by 1/4-inch (W)		2,140	2,490	2,590	7.9	2.6	E54029
Do.	do.	T	1/4-inch by 0		2,070	2,270	2,480	11.9	3.6	E54030
Avawam										
Prospect No. 75 I 42 B	Hazard No. 7 (Flag)	M		1	2,910+	-	-	4.5	.6	D28622
Prospect No. 75 I 47	do.	M		1	2,910+	-	-	6.3	.7	D28623
Prospect No. 75 I 51	do.	M		1	2,030	2,100	2,450	11.4	1.8	D28624
Blackey (Letcher County)										
Miniard No. 1	Leatherwood	T	Run-of-mine		2,510	2,600	2,710	5.8	.5	D65449
Blue Diamond										
Blue Diamond No. 1	Hazard No. 6	T	5- by 2-inch		2,840	2,870+	-	7.8	.7	A60642
Do.	do.	M		5	2,820	2,880+(1) 2,860 (4)	- 2,890 (2)	5.2	.7	A60694 to A60698
Do.	do.	T	8-inch lump		2,780	2,820	2,890+	3.4	.6	A60765
Do.	do.	T	8- by 5-inch		2,880	2,920+	-	4.5	.6	A60766
Do.	do.	T	2-inch by 0		2,820	2,850	2,910	9.5	.6	A60767
Do.	do.	T	6-inch lump		-	2,910+	-	3.5	.7	B35306
Do.	do.	T	4- by 6-inch		-	2,910+	-	5.1	.6	B35307
Do.	do.	T	2- by 4-inch		-	2,910+	-	6.9	.7	B35308
Do.	do.	T	2-inch by 0		-	2,910+	-	7.3	.7	B35309
Kentucky Hayslen	do.	T	5-inch lump		2,810	2,870	2,910+	4.9	.7	B35567
Do.	do.	T	5- by 2-1/2-inch		2,830	2,910+	-	8.5	.8	B35568

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Do.	do.	T	2-1/2-inch by 0		2,810	2,900+	-	13.4	.8	B35569
Bulan										
Ajax	Hazard No. 4	T	5-inch lump		2,730	2,800	2,900+	4.0	.8	B35570
Do.	do.	T	5- by 2-inch		2,560	2,680	2,840	4.1	.9	B35571
Do.	do.	T	2-inch by 0		2,580	2,760	2,900	9.0	1.2	B35572
Blue Ridge	Hazard No. 5 A	T	5-inch lump		2,840	2,910+	-	6.1	.8	D95977
Do.	do.	T	5- by 3-inch		2,890	2,910+	-	5.4	.7	D95978
Do.	do.	T	2-inch by 0		2,800	2,910+	-	7.7	.8	D95979
Indian Head	Hazard No. 4	T	5-inch lump		2,690	2,780	2,900+	4.2	.7	B34999
Do.	do.	T	5- by 3-1/4-inch		2,460	2,550	2,780	4.9	.9	B35000
Do.	do.	T	3-1/4- by 2-inch		2,640	2,710	2,880	5.4	.9	B35001
Do.	do.	T	2-inch by 0		2,550	2,720	2,880	8.7	1.1	B35002
Rytip	Hazard No. 7	T	4-1/2-inch lump		2,880	2,910+	-	5.1	.6	B35684
Do.	do.	T	4-1/2-inch by 0		-	2,900+	-	9.2	.6	B35685
Busy										
New Solar	Hazard No. 6	T	4-inch lump		2,790	2,850	2,900+	5.0	.8	B35640
Do.	do.	T	4- by 2-inch		2,830	2,900+	-	7.0	.7	B35641
Do.	do.	T	2-inch by 0		2,880	2,910+	-	8.1	.8	B35642
Christopher										
Columbus No. 3	Hazard No. 4	T	5-inch lump		2,620	2,710	2,910	3.2	.7	B35643
Do.	do.	T	5- by 2-inch		2,620	2,680	2,900	3.2	.7	B35644
Do.	do.	T	2-inch by 0		2,730	2,790	2,900+	5.3	.8	B35645
Combs										
Columbus No. 9	do.	T	Run-of-mine		2,280	2,340	2,610	3.6	.7	B35303
Do.	do.	T	4- by 2-inch		2,340	2,440	2,790	3.3	.8	B35304
Do.	do.	T	2-inch by 0		2,350	2,460	2,790	6.9	.8	B35305
Smith No. 1	do.	T	5-inch lump		2,080	2,210	2,500	3.4	1.0	E35272
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,570	2,670	2,810	4.3	.8	E35273
Do.	do.	T	1/4-inch by 0		2,600	2,680	2,820	9.2	1.0	E35274
Sunfire	do.	T	4- by 2-inch		2,460	2,570	2,740	3.5	.7	B35393
Do.	do.	T	4-inch lump		2,370	2,450	2,820	2.9	.8	B35394
Do.	do.	T	2-inch by 0		2,650	2,690	2,880	7.6	.8	B35395
Cornetsville										
Whitaker Coal Company	do.	M		1	2,520	2,570	2,710	4.8	.8	D54489
Darb Fork										
Darb Fork	do.	T	5-inch lump		2,570	2,640	2,840	3.1	.8	B35110
Do.	do.	T	5- by 2-inch		2,620	2,670	2,860	4.2	.9	B35111
Do.	do.	T	2-inch by 0		2,550	2,640	2,880	7.4	1.0	B35112
Do.	No. 7	T	5-inch lump		2,910+	-	-	4.2	.6	D43454
Do.	do.	T	5- by 2-inch (W)		2,910+	-	-	5.7	.6	D43455
Do.	do.	T	2-inch by 0 (W)		2,910+	-	-	9.5	.6	D43456
Glomawr										
Eblen Coal Company	do.	M		1	2,910+	-	-	5.7	.7	D49810
Do.	No. 9	M		1	2,800	2,860	2,910+	5.8	1.9	D49808
Glomawr	No. 7	T	5-inch lump		2,880	2,910+	-	4.1	.6	B36190
Do.	do.	T	5- by 2-inch		2,870	2,910+	-	6.2	.6	B36191
Do.	do.	T	2-inch by 0		2,820	2,880	2,910+	7.0	.6	B36192
Do.	No. 9	T	5-inch lump		2,690	2,770	2,880	4.2	1.3	D95579
Do.	do.	T	5- by 3-inch		2,670	2,720	2,810	6.2	1.8	D95580
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,590	2,680	2,840	8.0	1.9	D95581
Do.	do.	T	1/4-inch by 0		1,970	2,180	2,460	12.6	3.1	D95582
Do.	do.	T	2-inch by 0 (W)		2,550	2,610	2,730	8.4	2.1	D95976
Hardburly										
Hardburly	No. 7	T	8-inch lump		2,910+	-	-	5.9	.7	B35355
Do.	do.	T	8- by 4-inch		2,910+	-	-	6.8	.7	B35356
Do.	do.	T	4- by 1-1/4-inch		2,910+	-	-	8.6	.7	B35357
Do.	do.	T	1-1/4-inch by 0		2,810	2,900	2,910+	8.5	.7	B35358
Old King No. 2	do.	T	5-inch lump		2,910+	-	-	6.4	.5	D43993
Do.	do.	T	5- by 2-inch		2,910+	-	-	8.1	.5	D43994
Do.	do.	T	2-inch by 0		2,910+	-	-	6.7	.6	D43995
Harveyton										
Harvey	No. 6	T	5-inch lump		2,880	2,910+	-	4.0	.6	B35787

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Perry County (Con.)										
Harveyton										
Harvey	No. 6	T	5- by 2-inch		2,910+	-	-	7.3	.6	B35788
Do.	do.	T	2-inch by 0		2,880	2,910+	-	10.1	.7	B35789
Hazard										
Bluegrass Coal Company	No. 4	M		1	2,730	2,780	2,820	3.5	.6	D49809
Fourseam Coal Corporation	do.	M		1	2,730	2,800	2,910+	4.5	.8	D49806
Matt Hall	do.	M		1	2,910+	-	-	7.2	.8	D54491
Indian Head	No. 5 A	T	6-inch lump		2,860	2,910+	-	5.5	.8	E34083
Do.	do.	T	6- by 4-inch		2,910+	-	-	7.9	.7	E34084
Do.	do.	T	2-inch by 0		2,780	2,850	2,910+	10.1	1.0	E34085
Do.	No. 7	T	6-inch lump		2,890	2,910+	-	4.1	.6	E34086
Do.	do.	T	6- by 4-inch		2,910+	-	-	8.4	.5	E34087
Do.	do.	T	2-inch by 0		2,860	2,910+	-	8.9	.5	E34088
John Mackimore	No. 6	M		1	2,820	2,860	2,910+	5.7	.7	D54493
Nancy Lee	No. 7	M		1	2,890	2,910+	-	6.6	.6	D49807
Hiltonian										
Columbus No. 6	No. 4	T	5-inch lump		2,460	2,530	2,700	3.3	1.0	B35790
Do.	do.	T	5- by 2-inch		2,430	2,520	2,730	3.6	.7	B36179
Do.	do.	T	2-inch by 0		2,680	2,750	2,910	8.7	1.1	B35791
Jeff										
Kenmont	Hazard No. 7	T	5-inch lump		2,910+	-	-	5.0	.6	B36184
Do.	do.	T	5- by 3-inch		2,820	2,910+	-	5.5	.7	B36185
Do.	do.	T	3- by 2-inch		2,710	2,820	2,910+	6.6	.9	B36186
Do.	do.	T	2- by 1-1/4-inch		2,830	2,910+	-	5.9	.7	B36187
Do.	do.	T	2-inch by 0		2,770	2,860	2,910+	7.3	.8	B36188
Do.	do.	T	1-1/4-inch by 0		2,680	2,740	2,910	6.9	.7	B36189
Do.	do.	M		1	2,910+	-	-	6.8	.6	D54492
Kodak										
Meem-Haskins	Hazard No. 4	T	5-inch lump		2,780	2,910+	-	4.1	.6	D96962
Do.	do.	T	5- by 3-inch		2,790	2,840	2,910+	3.6	.7	D96963
Do.	do.	T	2-inch by 0		2,700	2,800	2,870	7.1	.7	D96964
Leatherwood										
Leatherwood	Leatherwood	M		3	2,240	2,370	2,590	4.1	.8	D21187 to D21189
Leatherwood No. 1	do.	T	10- by 5-inch		2,230	2,520	2,690	4.0	.6	E29441
Do.	do.	T	5- by 3-inch (W)		2,510	2,660	2,770	4.8	.6	E29442
Do.	do.	T	2-inch by 0 (W)		2,510	2,630	2,780	4.7	.7	E29443
Do.	do.	T	1/4-inch by 0 (W)		2,480	2,580	2,750	5.3	.8	E29444
Lothair										
Algoma Block	Hazard No. 4	T	5-inch lump		2,430	2,500	2,780	2.8	.7	B36085
Do.	do.	T	5- by 2-inch		2,500	2,570	2,770	3.3	.5	B36086
Do.	do.	T	2- by 1-1/8-inch		2,450	2,540	2,720	4.3	.7	B36087
Do.	do.	T	1-1/8-inch by 0		2,430	2,570	2,720	8.5	.7	B36088
Do.	Hazard No. 7	T	5-inch lump		2,580	2,660	2,880	4.5	.9	B36082
Do.	do.	T	5- by 2-inch		2,640	2,750	2,910+	6.4	.7	B36083
Do.	do.	T	1-1/8-inch by 0		2,620	2,730	2,910+	10.8	.7	B36084
Blue Grass No. 3	Hazard No. 4	T	5-inch lump		2,180	2,210	2,530	3.6	.9	B34903
Do.	do.	T	5- by 2-inch		2,190	2,250	2,670	4.6	.8	B34904

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Do.	do.	T	2-inch by 0		2,470	2,600	2,740	8.9	.8	B34905
Katy	do.	T	8-inch lump		2,130	2,170	2,480	3.7	1.0	D43280
Do.	do.	T	1- by 1/4-inch		2,130	2,200	2,470	6.0	1.1	D43281
Do.	do.	T	3/4-inch by 0		2,180	2,530	2,630	7.6	.9	D43282
Do.	do.	T	5-inch lump		2,440	2,560	2,740	2.6	.7	E31614
Do.	do.	T	1- by 1/4-inch		2,570	2,670	2,770	6.3	.8	E31615
Do.	do.	T	1/4-inch by 0		2,680	2,760	2,850	10.2	.9	E31616
Scuddy										
Defiance	No. 4	T	5-inch lump		2,470	2,570	2,700	2.9	.9	D43274
Do.	do.	T	5- by 2-inch		2,260	2,520	2,620	3.5	1.0	D43275
Do.	do.	T	2-inch by 0		2,880	2,910+	-	7.0	.8	D43276
Holcomb & Brown	do.	T	5-inch lump		2,520	2,610	2,680	3.3	.8	E32749
Do.	do.	T	5- by 3-inch		2,660	2,750	2,890	3.2	.8	E32750
Do.	do.	T	2-inch by 0		2,660	2,730	2,840	6.9	.9	E32751
Pittman	do.	T	5-inch lump		2,470	2,600	2,810	2.8	.7	D96965
Do.	do.	T	5- by 2-inch		2,470	2,600	2,910+	2.7	.6	D96966
Do.	do.	T	2-inch by 0		2,680	2,790	2,910+	5.8	.8	D96967
Scuddy	do.	T	5-inch lump		2,680	2,750	2,900+	3.2	.7	B36180
Do.	do.	T	5- by 2-inch		2,790	2,850	2,900+	3.9	.7	B36181
Do.	do.	T	2- by 1-1/2-inch		2,810	2,850	2,910+	4.8	.8	B36182
Do.	do.	T	1-1/2-inch by 0		2,810	2,870	2,910+	8.9	.8	B36183
Tribbey										
Old King No. 1	No. 7	T	5-inch lump		2,910+	-	-	3.8	.6	D43556
Do.	do.	T	5- by 2-inch		2,910+	-	-	6.4	.6	D43557
Do.	do.	T	2-inch by 0		2,730	2,780	2,840	5.8	.5	D43558
Do.	No. 5 A	T	5-inch lump		2,910+	-	-	6.9	.7	D43559
Do.	do.	T	5- by 2-inch		2,910+	-	-	9.1	.8	D43560
Do.	do.	T	2-inch by 0		2,870	2,910+	-	11.7	.9	D43561
Vicco										
Ovie Amburgy No. 1	No. 4	M		1	2,910+	-	-	6.9	.7	D54487
Raccoon	do.	T	5-inch lump		2,550	2,660	2,860	3.3	.7	B36467
Do.	do.	T	5- by 2-inch		2,470	2,610	2,780	4.0	1.0	B36468
Do.	do.	T	2-inch by 0		2,870	2,910+	-	9.2	.9	D36469
Pike County										
Aflex										
Alma	Alma	T	5- by 3-inch (W)		2,910+	-	-	6.4	.8	D48401
Do.	do.	T	3- by 1-1/2-inch (W)		2,910+	-	-	5.7	.8	D48402
Do.	do.	T	1-1/2- by 1/8-inch (W)		2,870	2,910	2,910+	4.8	.8	D48403
Do.	Pond Creek	T	2-inch lump		2,130	2,210	2,490	11.0	.6	D48408
Do.	do.	T	2-inch by 0		2,150	2,260	2,570	7.8	.6	D48409
Leckie No. 1	do.	M		3	2,460	2,580	2,800	3.1	.6	B951 to B953
Leckie No. 3	-	M		1	2,820	2,870	2,940	5.8	.5	B969
Thacker	Pond Creek (Thacker)	T	5- by 3-inch (W)		2,040	2,290	2,620	5.9	3.3	D48410
Do.	do.	T	3- by 1-1/2-inch (W)		2,070	2,170	2,590	6.6	2.9	D48411
Do.	do.	T	1-1/2- by 1/8-inch (W)		2,090	2,360	2,600	7.7	2.8	D48412
Betsy Layne (Floyd County)										
Pike-Floyd No. 9	Upper Elkhorn No. 3	M		3	2,230	2,360	2,610	4.1	1.1	B904 to B906
Biggs										
Feds Creek	Pond Creek	T	5- by 2-inch (W)		2,780	2,910+	-	3.5	.7	D48405
Do.	do.	T	2- by 3/4-inch (W)		2,910+	-	-	4.6	.6	D48406
Do.	do.	T	3/4-inch by 0 (W)		2,840	2,910+	-	5.6	.6	D48407
Boldman										
Boldman 5 E	Elkhorn No. 2	T	5-inch lump		2,740	2,850	2,910+	4.0	.7	B93985
Do.	do.	T	5- by 3-inch		2,520	2,570	2,740	5.4	.9	B93986
Do.	do.	T	3-inch by 0		2,180	2,470	2,580	8.4	1.0	B93987
Utilities Elkhorn	Elkhorn No. 1	M		3	2,630	2,750	2,910+(2) 2,680 (1)	3.7	.9	B892 to B894
Do.	Upper Elkhorn No. 2	M		2	2,310	2,470	2,680	3.1	.7	B974 and B975
Do.	Upper Elkhorn No. 3	M		1	2,350	2,500	2,680	5.1	1.1	B977
Do.	Bevins	M		2	2,490	2,620	2,820	5.8	.9	B978 and B979

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Pike County (Con.)										
Borderland (West Virginia)										
Borderland	Pond Creek (Thacker)	T	6-inch lump		2,310	2,440	2,620	4.5	2.0	D48247
Do.	do.	T	6- by 3-inch (W)		2,470	2,570	2,620	5.6	1.8	D48248
Do.	do.	T	1- by 1/8-inch (W)		2,620	2,730	2,780	7.1	1.7	D48250
Do.	do.	T	3- by 1-inch (W)		2,590	2,680	2,750	5.9	1.7	D48249
Dorton										
Dorton	Upper Elkhorn No. 2	M		3	2,330	2,540	2,640	5.2	1.1	B928 to B930
Dunlap										
Kentland No. 1	Lower Elkhorn	T	5-inch lump		2,780	2,890	2,910	21.5	.4	D47955
Do.	do.	T	5-inch by 0		2,780	2,890	2,910+	7.4	.6	D47956
Dunleary										
Dunleary	Pond Creek	M		3	2,690	2,770	2,940+(1) 2,840 (2)	4.3	.6	B944 to B946
Elkhorn City										
Bluehead	Auxier	T	Run-of-mine		2,620	2,840	2,910+	18.0	.8	B68579
Federal	Elswick	T	do.		2,020	2,280	2,470	9.0	2.8	B46392
Esco										
Esco	Elkhorn No. 3	T	5-inch lump		2,790	2,870	2,910+	4.4	1.1	B93659
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	3.9	.8	B93661
Do.	do.	T	3-inch by 0 (W)		2,910+	-	-	5.3	.9	B93660
Freeburn										
Alma	Alma	M		3	2,730	2,820	2,910+(1) 2,890 (2)	3.5	.6	B872 to B874
Freeburn	Pond Creek	M		3	2,720	2,810	2,920+(2) 2,860 (1)	4.3	.7	B876 to B878
Goody										
Pond Creek	do.	M		3	2,750	2,830	2,910+	4.4	.5	B936 to B938
Williamson	Pond Creek (Thacker)	M		3	2,070	2,300	2,580	6.2	3.0	B932 to B934
Hellier										
Coaldale No. 3	Pond Creek	M		1	2,400	2,480	2,640	1.8	.5	B984
Greenough No. 2	Upper Elkhorn No. 2	M		3	2,410	2,540	2,720	2.6	.6	B961 to B963
Hellier No. 2	Elkhorn No. 2	T	Run-of-mine		2,620	2,730	2,800	5.1	.8	D47957
Lookout										
Henry Clay No. 1	Pond Creek	M		3	2,230	2,350	2,700	2.0	.5	B900 to B902
Henry Clay No. 2	Upper Elkhorn No. 2	M		3	2,290	2,400	2,710	1.8	.6	B896 to B898
McAndrews										
Octavia	Pond Creek	M		3	2,620 (2)	2,910+(1) 2,580 (2)	2,910+(1) 2,640 (1)	4.9	.5	B888 to B890
McCarr										
Allburn	Alma	M		3	2,530	2,690	2,840	4.8	.6	B884 to B886
Do.	do.	T	4-inch lump		2,910+	-	-	4.0	.6	B9726
Do.	do.	T	4- by 2-inch		2,680	2,800	2,850	4.4	.6	B9727
Do.	do.	T	2-inch by 0		2,710	2,770	2,840	6.2	.6	B9728
New Alma	do.	M		3	2,720 (2)	2,930+(1) 2,820 (2)	- 2,910 (2)	3.6	.5	B880 to B882
New Alma No. 1	Pond Creek	T	5-inch lump		2,910	2,910+	-	22.1	.4	D49163
Do.	do.	T	5- by 2-inch		2,910+	-	-	9.1	.6	D49164
Do.	do.	T	2-inch by 0		2,910+	-	-	8.7	.6	D49165

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New Alma No. 2	Pond Creek (Thacker)	T	5-inch lump		2,910+	-	-	5.7	.8	D49166
Do.	do.	T	5- by 3-inch		2,890	2,910+	-	4.8	.9	D49167
Do.	do.	T	3- by 2-inch		2,680	2,730	2,860	6.3	1.2	D49168
Do.	do.	T	2-inch by 0		2,260	2,570	2,730	8.9	1.6	D49169
McVeigh										
New Marietta	Pond Creek	T	Run-of-mine		2,810	2,860	-	6.8	.5	B9224
McVeigh No. 7	do.	T	6-inch lump		2,710	2,800	2,910+	6.7	.6	B46858
Do.	do.	T	6- by 2-inch		2,760	2,870	2,910+	6.6	.6	B46859
Do.	do.	T	2-inch by 0		2,710	2,840	2,910+	6.4	.5	B46860
Majestic										
Majestic	do.	M		4	2,770 (3)	2,910+(1) 2,870 (3)	2,910+(2) 2,910 (1)	4.7	.8	B25606 to B25609
Do.	do.	T	5-inch lump		2,700	2,820	2,910+	5.1	.6	B9475
Do.	do.	T	5- by 2-inch		2,700	2,820	2,910+	5.4	.6	B9476
Do.	do.	T	2- by 1-inch		2,780	2,820	2,920+	6.7	.6	B9477
Do.	do.	T	1- by 1/2-inch		2,780	2,810	2,910+	6.0	.6	B9478
Do.	do.	T	1/2-inch by 0		2,660	2,700	2,750	6.6	.6	B9479
Manco										
Allegheny No. 4	Elkhorn No. 2	T	Run-of-mine		2,800	2,870	2,910+	4.9	.7	E52794
Matewan (West Virginia)										
Norman & Son	Alma	T	do.		2,840	2,910+	-	3.4	.6	E21154
Millard										
Purity Cannel Coal	Upper Elkhorn No. 2	M		3	2,190	2,270	2,540	6.0	1.3	B940 to B942
Do.	do.	T	6-inch lump		2,160	2,240	2,490	9.0	1.2	B46394
Do.	do.	T	6- by 1-1/4-inch		2,180	2,280	2,570	7.7	1.0	B46395
Do.	do.	T	1-1/4-inch by 0		2,150	2,280	2,570	14.1	2.0	B46396
Nolan (West Virginia)										
Big Creek Winifrede	Haddix	T	5-inch lump		2,790	2,890	2,910+	3.3	.7	B93988
Do.	do.	T	5- by 2-1/2-inch		2,690	2,790	2,910+	5.9	.8	B93989
Do.	do.	T	2-1/2-inch by 0		2,570	2,720	2,840	12.3	.9	B93990
Pauley										
United Elkhorn	Upper Elkhorn No. 3	M		3	2,530	2,650	2,800	4.6	1.0	B908 to B910
Phillis										
Lampliter	Clintwood	T	Run-of-mine		2,620	2,700	2,800	8.1	1.0	E36292
Pikeville										
Clintwood Coal Company No. 1	do.	T	do.		2,570	2,680	2,730	7.8	1.6	D64231
Marrowbone No. 1	Lower Elkhorn No. 2	T	do.		2,740	2,810	2,910+	4.8	.7	D84758
Pinsonfork										
Marietta	Pond Creek	M		1	2,690	2,800	2,860	5.2	.6	84209
Praise										
Barrowman	-	M		3	-	2,910+(3)	-	9.8	.7	B912 to B914
Do.	Auxier	M		3	2,080	2,340	2,510	9.5	2.5	B916 to B918
Do.	Bingham	M		1	2,100	2,390	2,520	7.7	2.0	B960
Federal No. 1	Elswick	M		3	2,180	2,300	2,580	9.1	2.7	B920 to B922
Federal No. 2	Auxier	M		3	2,620	2,690	2,910+(1) 2,780 (2)	5.4	1.2	B924 to B926
Regina										
Marrowbone No. 2	Elkhorn No. 2	T	Run-of-mine		2,700	2,800	2,910+	7.7	.7	D93759
Sharondale										
Blackburn No. 1	Pond Creek	T	do.		2,420	2,470	2,620	9.9	.7	D31788
Shelbiana										
Shelby Steam Coal Company	Elkhorn No. 2	T	do.		2,590	2,690	2,860	7.6	.8	B45988
Sprigg (West Virginia)										
Belfry No. 2	Pond Creek	T	do.		2,780	2,860	2,910+	8.9	.7	C74146
Stone										
Fordson No. 3	do.	M		4	2,580	2,650	2,810	5.1	.6	A74294 to A74297
Royal Pond Creek	do.	T	2-inch lump		2,440	2,520	2,700	4.6	.6	E36299
Do.	do.	T	2-inch by 0		2,420	2,470	2,650	5.5	.5	E36300
Stone No. 3	do.	T	5-inch lump		2,750	2,810	2,910+	7.5	.5	B46650
Do.	do.	T	5- by 2-inch		2,500	2,660	2,780	7.0	.4	B46651
Do.	do.	T	2-inch by 0		2,410	2,600	2,710	7.6	.5	B46652

1/ M, mine sample; T, tipple sample. 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Eastern (Con.)										
Pike County (Con.)										
Stone										
Sudduth	Pond Creek	T	5-inch lump		2,910+	-	-	6.3	.5	B8645
Do.	do.	T	5- by 2-inch		2,840	2,910	2,910+	5.4	.6	B8646
Do.	do.	T	2- by 1-1/2-inch		2,690	2,740	2,830	6.3	.6	B8647
Do.	do.	T	1-1/4-inch by 0		2,560	2,740	2,840	6.4	.6	B8648
Do.	do.	T	2-inch by 0		2,680	2,740	2,830	6.1	.6	B8649
Tierney Mining Company	do.	M		3	2,390 (1)	2,910+(2) 2,490 (1)	- 2,690 (1)	4.8	.5	B971 to B973
Tierney	do.	T	8- by 5-inch		2,880	2,910+	-	5.8	.6	B46902
Do.	do.	T	5- by 2-inch		2,880	2,910+	-	5.6	.5	B46903
Do.	do.	T	2- by 1-inch		2,820	2,890	2,910+	6.2	.6	B46904
Do.	do.	T	1-inch by 0		2,610	2,730	2,900	5.3	.5	B46905
Virgie										
Virgie No. 6	Upper Elkhorn	M		2	2,780	2,870	2,950+	5.2	.7	B947 and B948
Vulcan										
Vulcan	Alma	M		1	2,730	2,790	2,910+	2.9	.5	B985
Rockcastle County										
Orlando										
Black Hawk	-	T	5-inch lump		2,910+	-	-	5.3	.6	D46644
Do.	-	T	5- by 2-inch		2,910+	-	-	8.1	.5	D46645
Do.	-	T	2-inch by 0		2,840	2,910+	-	11.7	.4	D46646
Whitley County										
Corbin										
Barton	Jellico	T	Run-of-mine		2,420	2,470	2,680	5.8	1.3	D47004
Helton	do.	T	do.		2,470	2,600	2,890	6.5	1.1	D47005
Smith	do.	T	do.		1,970	2,210	2,520	4.8	2.5	D47094
Thornton	do.	T	do.		2,140	2,420	2,540	6.1	1.9	D47006
Faber										
Osborne	do.	T	do.		2,600	2,690	2,810	4.4	.9	E35144
Gatliff										
Mammoth	Blue Gem	T	5-inch lump		1,980	2,060	2,280	1.5	1.0	B44331
Do.	do.	T	5- by 2-inch		1,970	2,090	2,280	1.5	1.0	B44332
Do.	do.	T	2-inch by 0		2,030	2,130	2,580	4.2	1.1	B44333
Jellico (Tennessee)										
Burk Hollow	do.	T	2-inch lump		2,110	2,230	2,310	2.6	1.0	B44163
Do.	do.	T	2-inch by 0		2,050	2,250	2,470	9.3	1.2	B44164
Mountain Ash										
Blue Gem	do.	T	5-inch lump		2,220	2,320	2,500	1.7	1.4	B94453
Do.	do.	T	5- by 2-inch		2,000	2,100	2,260	1.7	1.1	B94454
Do.	do.	T	2-inch by 0		2,060	2,110	2,440	5.2	1.4	B94455
Whitley Blue Gem	do.	T	5-inch lump		2,080	2,260	2,450	1.8	1.3	B43344
Do.	do.	T	5- by 2-inch		2,020	2,070	2,320	2.4	1.1	B43345
Do.	do.	T	2-inch by 0		2,020	2,100	2,320	4.2	1.3	B43346
Nevisdale										
Dixie	do.	T	3-inch lump		1,930	2,050	2,320	1.5	1.0	B43401

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Do.	do.	T	3-inch by 0		2,040	2,150	2,410	6.6	1.2	B43402
Packard										
Dixie Gem	Jellico	T	5-inch lump		2,610	2,730	2,830	3.7	.7	B44225
Do.	do.	T	5- by 2-1/2-inch		2,290	2,480	2,830	3.6	.9	B44226
Do.	do.	T	2-1/2- by 1-1/4-inch		2,290	2,480	2,810	4.6	1.0	B44227
Do.	do.	T	1-1/4- by 1/4-inch		2,360	2,600	2,730	8.5	1.1	B44228
Do.	do.	T	1/4-inch by 0		2,200	2,530	2,730	11.6	1.3	B44229
Rockholds										
Big Seam	do.	T	Run-of-mine		2,440	2,520	2,700	7.0	.9	D83145
Jellico	do.	T	do.		2,130	2,210	2,570	4.8	1.4	D44977
Savoy										
Packard	do.	T	5-inch lump		2,200	2,390	2,570	3.7	1.3	E35145
Do.	do.	T	5- by 3-inch		2,250	2,430	2,590	3.1	1.3	E35146
Do.	do.	T	2-inch by 0		2,220	2,430	2,600	4.3	1.5	E35147
Saxton										
Saxton	-	T	Run-of-mine		1,960	2,180	2,450	13.3	3.8	B43436
Williamsburg										
George Bobo Estate	River Gem	T	5-inch lump		1,940	2,000	2,330	5.3	2.3	E35139
Do.	do.	T	5- by 3-inch		1,970	2,020	2,340	6.7	3.1	E35140
Do.	do.	T	3- by 1-1/4-inch		2,000	2,060	2,330	9.9	4.5	E35141
Do.	do.	T	1-1/4- by 5/8-inch		1,970	2,020	2,320	11.4	4.5	E35142
Wister										
Wister Blue Gem	Blue Gem	T	4-inch lump		1,900	2,030	2,190	1.6	.7	B43468
Do.	do.	T	4- by 2-inch		2,030	2,060	2,310	2.0	.8	B43469
Do.	do.	T	2-inch by 0		2,190	2,460	2,610	9.1	.9	B43470
Wolfe County										
Helechawa										
Faulkner No. 1	Cannel City	M		1	2,070	2,310	2,570	5.7	2.2	D77815

KENTUCKY

Butler County										
Morgantown										
Benson	-	M		2	2,050	2,280	2,440	6.8	1.5	A39030 and A39031
Joe Clark	-	M		2	2,120	2,260	2,640	6.2	.7	A39040 and A39041
John Crabtree	-	M		2	2,140	2,500	2,640	2.9	1.0	A39429 and A39430
Wade Ellis	-	M		2	1,960	2,350	2,480	5.3	2.1	A39038 and A39039
Delbert Fields	-	M		2	1,960	2,340	2,480	3.8	1.6	A39419 and A39420
Hammers	-	M		2	2,160	2,340	2,500	5.1	.9	A39036 and A39037
Hatcher	-	M		2	2,140	2,450	2,550	6.4	1.8	A39032 and A39033
J. L. Martin	-	M		2	2,050	2,090	2,490	9.7	5.1	A39423 and A39424
W. P. Martin	-	M		2	2,010	2,200	2,510	4.1	2.0	A39425 and A39426
Pitcher	-	M		2	2,080	2,210	2,560	7.7	5.2	A39026 and A39027
Romans	-	M		2	2,040	2,130	2,460	6.5	4.1	A39028 and A39029
Phillip Rose	-	M		2	2,750	2,830	2,910+(1) 2,840 (1)	3.0	1.0	A39427 and A39428
Thurman Wells	-	M		2	2,410	2,560	2,760	2.3	.7	A39421 and A39422
Williams	No. 6	T	4-inch lump		1,940	2,030	2,360	3.5	1.6	E54574
Do.	do.	T	4- by 1-3/4-inch		2,020	2,210	2,450	4.0	1.3	E54575
Do.	do.	T	1-3/4- by 1-inch		2,050	2,170	2,520	6.5	1.5	E54576
Do.	do.	T	1- by 1/4-inch		2,070	2,160	2,520	6.8	1.5	E54577
Do.	do.	T	1/4-inch by 0		2,000	2,170	2,510	13.3	2.1	E54578
South Hill										
Kirby	-	M		2	1,950	2,130	2,370	5.7	2.1	A39034 and A39035
Christian County										
Empire										
Empire	No. 6	T	3-inch lump		1,960	2,040	2,200	4.1	2.6	B33060

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Christian County (Con.)										
Empire										
Empire	No. 6	T	3- by 5/16-inch		1,940	1,990	2,390	6.3	2.5	B33061
Do.	do.	T	1-1/2-inch by 0		1,940	2,030	2,390	8.5	2.7	B33062
Do.	do.	T	5/16-inch by 0		1,920	2,150	2,400	12.8	3.1	B33063
Mannington										
Puddin Head	do.	T	2-1/2-inch lump		1,980	2,160	2,550	3.5	1.8	B31685
Do.	do.	T	2-inch by 0		1,950	2,030	2,360	6.5	2.8	B31686
Williams No. 4	do.	T	1-1/4- by 3/4-inch		2,010	2,110	2,400	5.4	2.2	B77628
Do.	do.	T	3/4-inch by 8-mesh		2,010	2,060	2,400	5.2	2.5	B77629
Do.	do.	T	8-mesh by 0		2,050	2,110	2,470	8.4	2.7	B77630
Crittenden County										
Sturgis (Union County)										
Bell No. 1	No. 1	M		3	2,780	2,910+(2) 2,770 (1)	2,890+(1)	4.8	.6	B41384 to B41386
Daviess County										
Knottsville										
Chapman	Stray No. 6	T	4-inch lump		2,050	2,090	2,130	8.3	5.7	E38696
Do.	do.	T	4- by 1-1/4-inch		2,070	2,140	2,280	12.2	8.4	E38697
Do.	do.	T	1-1/4- by 3/8-inch		2,010	2,070	2,130	8.4	5.6	E38698
Do.	do.	T	3/8-inch by 0		1,960	2,020	2,240	18.1	7.1	E38699
Owenboro										
Lee	No. 9	M		3	2,100	2,180	2,220	14.5	3.2	A24958 to A24960
Lily Meade	do.	M		3	2,100	2,170	2,200	12.9	2.7	A24966 to A24968
Do.	do.	T	3-inch lump		1,900	1,980	2,210	13.6	4.5	B34826
Do.	do.	T	3- by 1-1/4-inch		1,990	2,020	2,330	14.4	4.6	B34827
Do.	do.	T	1-1/4-inch by 0		1,980	2,040	2,370	20.9	4.0	B34828
Owensburg	do.	M		3	2,100	2,130	2,180	13.1	3.2	A24962 to A24964
Rudy	do.	T	4-inch lump		1,940	1,980	2,260	14.1	4.8	B34995
Do.	do.	T	4- by 2-inch		1,990	2,030	2,260	18.4	5.6	B34996
Do.	do.	T	2- by 1-inch		2,000	2,050	2,460	20.0	4.7	B34997
Do.	do.	T	1-inch by 0		2,010	2,090	2,540	20.7	4.0	B34998
Wilson No. 1	do.	M		3	2,130	2,210	2,260	16.4	3.3	A24970 to A24972
Wood & Alvey	do.	T	3-inch lump		1,990	2,010	2,380	11.9	4.5	B35029
Do.	do.	T	3- by 2-inch		2,010	2,040	2,420	13.9	4.3	B35030
Do.	do.	T	2-inch by 0		2,010	2,040	2,230	20.6	4.4	B35031
Utica										
Panther	do.	T	6-inch lump		1,970	2,000	2,100	10.9	4.3	D49348
Do.	do.	T	6- by 4-inch		2,030	2,100	2,260	10.7	4.1	D49349
Do.	do.	T	4- by 3-inch		2,000	2,050	2,080	11.9	4.4	D49350
Do.	do.	T	3- by 1-1/2-inch		2,030	2,080	2,210	12.7	4.5	D49351
Do.	do.	T	1-1/2- by 1/2-inch		2,050	2,140	2,270	15.9	3.6	D49352
Do.	do.	T	1/2-inch by 0		2,080	2,130	2,440	17.3	3.2	D49353

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West Louisville											
West Louisville		do.	T	3-inch lump		1,950	2,000	2,240	12.6	3.1	B34992
Do.		do.	T	3- by 1-1/4-inch		1,990	2,070	2,410	14.3	3.4	B34993
Do.		do.	T	1-1/4-inch by 0		1,990	2,050	2,350	18.9	3.4	B34994
Hancock County											
Hawesville											
Genevieve Duncan		-	M		1	1,990	2,090	2,240	5.7	3.1	A24985
Lewisport											
L. R. Chapman	No. 6		T	6-inch lump		2,010	2,080	2,280	5.9	4.7	D86956
Do.		do.	T	6- by 1-1/4-inch		2,000	2,080	2,220	8.9	5.9	D86957
Do.		do.	T	1-1/4-inch by 0		1,890	2,050	2,440	14.3	6.2	D86958
Henderson County											
Henderson											
Keystone	No. 9		T	6-inch lump		2,000	2,050	2,440	13.4	3.2	B34822
Do.		do.	T	3- by 1-1/4-inch		1,970	2,050	2,360	11.9	3.7	B34823
Do.		do.	T	1-1/4- by 3/4-inch		1,970	2,000	2,320	17.2	4.0	B34824
Do.		do.	T	3/4-inch by 0		1,960	2,020	2,360	19.5	4.1	B34825
Nicholson		do.	T	6-inch lump		2,000	2,050	2,410	12.8	3.6	B35294
Do.		do.	T	6- by 2-1/2-inch		1,980	2,020	2,250	11.9	4.5	B35295
Do.		do.	T	2-1/2- by 1-1/4-inch		1,990	2,020	2,230	13.6	4.4	B35296
Do.		do.	T	1-1/4- by 3/4-inch		1,950	2,000	2,240	15.5	4.9	B35297
Do.		do.	T	3/4-inch by 0		1,940	1,980	2,180	17.6	4.5	B35298
Wolf Hills		do.	M		1	1,940	2,000	2,230	13.1	3.9	B38468
Zion		do.	T	2-1/2-inch lump		1,990	2,030	2,410	11.3	3.9	B34863
Do.		do.	T	2-1/2- by 1-1/2-inch		1,990	2,020	2,270	15.4	3.9	B34864
Do.		do.	T	1-1/2-inch by 0		2,050	2,120	2,320	20.2	3.2	B34865
Smith Mills											
Community	No. 14		M		3	1,970	2,060	2,420	10.4	2.3	B34670 to B34672
Do.		do.	T	3-inch lump		1,970	2,020	2,330	9.7	2.7	B34674
Hopkins County											
Anton											
New Coal	No. 11		T	6-inch lump		1,930	1,970	2,250	10.1	4.6	B32846
Do.		do.	T	6- by 3-inch		1,920	2,010	2,280	8.1	4.0	B32847
Do.		do.	T	3- by 1-1/4-inch		1,940	2,080	2,350	12.1	4.8	B32848
Do.		do.	T	1-1/4-inch by 0		2,010	2,060	2,200	14.5	4.4	B32849
Trio		do.	T	Run-of-mine		2,010	2,050	2,370	9.9	4.1	B32976
Do.		do.	T	3- by 1-1/4-inch		2,040	2,120	2,370	10.4	3.9	B32977
Do.		do.	T	6-inch lump		1,920	2,030	2,370	7.7	4.0	B33064
Do.		do.	T	6- by 3-inch		1,930	2,030	2,370	7.9	3.7	B33065
Do.		do.	T	1-1/4-inch by 0		1,980	2,040	2,220	14.0	4.1	B33066
Beulah											
Furgerson		do.	T	6-inch lump		1,930	2,000	2,210	9.5	5.0	E53333
Do.		do.	T	6- by 3-inch		2,000	2,050	2,260	11.7	4.0	E53334
Do.		do.	T	3- by 1-1/4-inch		2,000	2,060	2,260	13.0	4.1	E53335
Do.		do.	T	1-1/4-inch by 0		2,020	2,090	2,350	12.9	3.9	E53336
Laffoon	No. 9		T	3-inch lump		1,950	2,050	2,310	10.1	3.5	B34675
Do.		do.	T	3- by 2-inch		1,950	2,000	2,200	11.4	4.1	B34676
Do.		do.	T	2-inch by 0		1,940	1,980	2,310	14.2	4.6	B34677
Meadows	No. 11		T	2-1/2-inch lump		1,970	2,050	2,420	5.7	3.6	D42634
Do.		do.	T	2-1/2- by 1-inch		1,920	1,970	2,230	9.3	4.0	D42635
Do.		do.	T	1- by 3/16-inch		2,000	2,050	2,310	11.0	4.3	D42636
Do.		do.	T	3/16-inch by 0		2,030	2,080	2,380	13.4	4.2	D42637
Do.		do.	T	4-inch lump		2,000	2,180	2,470	4.1	3.2	D66159
Do.		do.	T	4- by 2-inch (W)		2,080	2,210	2,490	4.9	3.3	D66160
Do.		do.	T	2- by 3/16-inch (W)		1,940	2,220	2,490	6.8	3.4	D66161
Carbondale											
Carbondale	No. 9		T	2-1/2-inch lump		1,940	2,010	2,340	10.3	4.5	B33350

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Hopkins County (Con.)										
Carbondale										
Carbondale	No. 9	T	2-1/2- by 1-1/2-inch		1,950	2,010	2,330	11.0	4.3	B33351
Do.	do.	T	1-1/4-inch by 0		1,990	2,030	2,300	13.3	4.2	B33352
Charleston										
M. B. Brown	No. 6	T	Run-of-mine		1,970	2,060	2,440	5.8	3.2	B31494
Do.	do.	T	2-inch lump		1,970	2,060	2,480	4.9	2.9	B31495
Do.	do.	T	2-inch by 0		1,970	2,040	2,480	6.2	3.1	B31496
Do.	do.	T	1-1/2- by 3/8-inch		1,960	2,030	2,350	6.0	3.1	B31497
Do.	do.	T	3/8-inch by 0		1,960	2,030	2,350	8.6	3.7	B31498
Dawson Daylight No. 6	do.	T	6- by 3-inch		1,930	2,000	2,290	4.5	2.6	B32061
Do.	do.	T	3- by 1-1/4-inch		1,920	2,000	2,270	5.9	2.8	B32062
Do.	do.	T	1-1/4- by 1/8-inch		1,940	2,000	2,230	6.1	2.7	B32063
Do.	do.	T	1/8-inch by 0		1,960	2,030	2,400	11.2	3.1	B32064
Do.	do.	T	3/8- by 1/8-inch		1,920	2,000	2,350	8.4	3.2	B32065
Dawson Daylight No. 9	No. 9	T	3-inch lump		1,960	2,030	2,240	10.9	5.3	B31357
Do.	do.	T	3- by 1-1/4-inch		1,860	2,100	2,370	10.8	4.5	B31358
Do.	do.	T	6-inch lump		1,850	2,000	2,350	9.8	4.7	B31359
Do.	do.	T	6- by 1-1/4-inch		1,940	2,030	2,390	10.5	4.5	B31360
Do.	do.	T	1-1/4-inch by 0		1,960	2,090	2,360	14.2	4.6	B31361
Lick Creek	No. 6	T	Run-of-mine		1,970	2,040	2,370	7.5	3.0	B31594
Thomas Logan	do.	M		1	2,010	2,060	2,150	4.1	2.6	A29686
Morris	do.	M		1	2,010	2,060	2,310	7.1	4.1	A29687
Sixth Vein	do.	T	6-inch lump		1,900	1,970	2,380	4.7	2.1	B31499
Do.	do.	T	6- by 4-inch		1,960	2,020	2,460	4.2	2.4	B31500
Do.	do.	T	2- by 3/16-inch		1,910	2,120	2,410	8.1	2.8	B31501
Do.	do.	T	1-1/2- by 3/16-inch		1,910	2,010	2,340	6.9	2.6	B31502
Do.	do.	T	3/16-inch by 0		1,970	2,130	2,440	9.3	2.6	B31503
Workman	do.	M		1	1,910	2,010	2,240	6.3	2.7	A29685
Crabtree										
Ilsley	No. 9	M		3	1,970	2,020	2,060	12.4	3.9	A24145 to A24147
Daniel Boone										
Daniel Boone	do.	T	3-inch lump		2,030	2,120	2,380	9.8	3.6	B57656
Do.	do.	T	3- by 1-1/4-inch		2,090	2,150	2,360	8.3	3.1	B57657
Do.	do.	T	1-1/4-inch by 0		1,990	2,070	2,410	11.1	3.8	B57658
Sterling	No. 11	M		3	2,010	2,130	2,220	8.0	3.4	A24161 to A24163
Dawson Springs										
Angel & Stevens	No. 9	T	Run-of-mine		2,000	2,050	2,260	13.3	4.5	D42937
Do.	do.	T	6-inch lump		1,910	1,960	2,380	9.2	4.5	E36138
Do.	do.	T	6- by 3-inch		1,920	2,040	2,330	9.1	4.3	E36139
Do.	do.	T	3- by 2-inch		1,950	2,030	2,310	10.1	4.5	E36140
Do.	do.	T	2-inch by 0		1,990	2,030	2,310	12.8	5.0	E36141
Apex No. 2	do.	T	Run-of-mine		1,940	2,080	2,310	11.4	4.4	D18071
Buffalo Creek	No. 6	T	1-1/4- by 3/16-inch (W)		1,940	2,070	2,420	4.3	1.9	D64008
Do.	do.	T	1- by 3/16-inch (W)		1,940	2,050	2,420	3.9	1.7	D64009
Do.	do.	T	3/16-inch by 0 (W)		1,940	2,100	2,470	2.9	1.1	D64010
Charleston No. 1	do.	T	1-1/2- by 1/4-inch		1,920	2,030	2,130	6.2	3.9	D18076

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Do.	do.	T	1- by 1/4-inch		1,910	1,950	2,130	6.0	3.9	D18077
Do.	do.	T	1/4-inch by 0		1,940	2,030	2,150	10.4	4.9	D18078
Charleston No. 6	do.	T	2- by 1/4-inch		2,660	2,750	2,860	6.7	1.0	E37171
Do.	do.	T	1/4-inch by 0		2,760	2,840	2,910	9.3	1.8	E37172
Chesley Franklin	No. 11	T	2-1/2-inch lump		1,970	2,110	2,360	5.4	3.4	E36289
Do.	do.	T	2-1/2- by 1-1/4-inch		1,970	2,100	2,350	13.7	4.4	E36290
Do.	do.	T	1-1/4-inch by 0		1,970	2,070	2,300	14.6	4.5	E36291
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		1,940	2,190	2,460	5.7	3.3	E55807
Do.	do.	T	1-1/4- by 1/4-inch (W)		1,930	2,130	2,300	5.8	3.6	E55808
Dawson Collieries	No. 6	T	1- by 3/4-inch (W)		1,940	1,990	2,110	3.5	1.9	E53337
Do.	do.	T	3/4- by 1/4-inch (W)		1,920	2,000	2,090	4.6	2.3	E53338
Do.	do.	T	1/4-inch by 0		1,930	2,010	2,180	10.6	3.3	E53339
Daylight	do.	T	1- by 1/4-inch (W)		2,050	2,240	2,530	5.4	1.5	E53340
Do.	do.	T	3/4- by 1/4-inch (W)		2,070	2,240	2,540	5.5	1.6	E53341
Do.	do.	T	1/4-inch by 0		2,030	2,170	2,470	11.0	2.5	E53342
West Carbondale No. 2	No. 9	T	2-1/2-inch lump		2,000	2,080	2,410	9.4	3.8	B57504
Do.	do.	T	2-1/2- by 2-inch		2,000	2,070	2,410	11.7	5.4	B57505
Do.	do.	T	2- by 3/4-inch		2,000	2,080	2,410	13.5	5.6	B57506
Do.	do.	T	3/4-inch by 0		2,000	2,120	2,410	18.7	5.6	B57507
Earlington										
Hecla	do.	T	Run-of-mine		1,990	2,030	2,240	12.6	4.6	B74618
Do.	do.	T	6- by 3-inch (W)		1,910	2,020	2,220	9.2	3.6	D97750
Do.	do.	T	3- by 1-1/2-inch (W)		1,930	2,070	2,380	7.5	3.0	D97751
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,900	2,020	2,350	8.4	3.2	D97752
Nisbet	No. 11	M		3	2,080	2,170	2,220	8.5	3.5	A24165 to A24167
North Diamond	No. 9	M		6	1,970	2,020	2,350	10.6	3.9	B34081 to B34086
Do.	No. 11	T	3/4- by 1/4-inch (W)		2,000	2,280	2,470	5.4	3.4	B64454
Do.	do.	T	2-inch by 0 (W)		1,990	2,180	2,430	6.7	3.5	B64455
Do.	do.	T	1-1/4-inch by 0 (W)		1,990	2,150	2,420	7.4	3.7	B64456
Do.	do.	T	1/4-inch by 0		2,040	2,090	2,280	12.4	3.9	B64457
Do.	do.	T	4- by 2-inch (W)		2,040	2,280	2,480	5.1	3.3	B64458
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,060	2,290	2,470	6.8	3.3	B64459
North Diamond No. 2	do.	T	6- by 3-inch (W)		1,920	2,030	2,380	5.6	3.5	D12959
Do.	do.	T	3- by 2-inch (W)		1,920	2,030	2,380	5.9	3.5	D12960
Do.	do.	T	2- by 1-1/2-inch (W)		1,970	2,080	2,380	6.7	3.2	D12961
Do.	do.	T	1-1/2- by 1/4-inch (W)		1,970	2,080	2,330	5.9	3.4	D12962
Do.	do.	T	1/4-inch by 0		2,050	2,100	2,260	15.7	4.1	D12963
West Kentucky No. 9	do.	M		3	2,050	2,110	2,190	13.7	3.2	A24169 to A24171
Ilsley										
Crabtree	do.	T	8-inch lump		2,000	2,280	2,490	5.3	3.4	D16286
Do.	do.	T	8- by 4-inch		2,050	2,210	2,440	5.3	3.4	D16287
Do.	do.	T	4- by 1-1/2-inch (W)		2,050	2,180	2,440	5.6	3.5	D16288
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,080	2,180	2,440	6.2	3.4	D16289
Do.	do.	T	3/8-inch by 28-mesh (W)		2,030	2,180	2,480	6.3	3.2	D16290
Madisonville										
Atkinson	No. 9	T	10- by 6-inch		1,930	2,030	2,310	10.3	3.9	D82173
Do.	do.	T	6-inch by 0		2,000	2,040	2,100	12.7	4.6	D82174
Black Bat	No. 11	T	Run-of-mine		1,900	2,030	2,330	14.1	4.0	D17212
Blue Valley	No. 9	T	6-inch lump		1,940	2,050	2,370	9.9	3.6	B33155
Do.	do.	T	6- by 3-inch		1,950	2,020	2,260	9.9	3.8	B33156
Do.	do.	T	3- by 2-inch		1,950	2,020	2,320	9.6	3.9	B33157
Do.	do.	T	2- by 1-1/4-inch		1,950	2,010	2,260	10.1	4.1	B33158
Do.	do.	T	1-1/4-inch by 0		1,950	2,000	2,300	14.2	4.2	B33159
Coil No. 2	No. 11	M		3	2,060	2,110	2,170	8.4	3.4	A24153 to A24155
Colonial	No. 9	T	6- by 1-1/2-inch (W)		1,920	2,010	2,210	8.7	3.5	D18432
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,030	2,080	2,310	8.1	3.1	D18433
Do.	No. 11	T	6- by 4-inch (W)		1,970	2,100	2,420	7.0	4.0	D64232
Do.	do.	T	4- by 1-1/2-inch (W)		1,970	2,140	2,420	6.8	3.6	D64233
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,000	2,180	2,420	6.8	3.5	D64234
Do.	do.	T	3/4- by 1/4-inch (W)		2,000	2,130	2,420	6.8	3.4	D64235
Do.	do.	T	1/4-inch by 0 (W)		2,030	2,150	2,420	8.6	3.3	D64236
Do.	do.	T	1-1/2-inch by 0 (W)		1,970	2,150	2,420	6.8	3.4	D64237

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Hopkins County (Con.)										
Madisonville										
Colonial	No. 12	T	6- by 4-inch (W)		2,130	2,220	2,490	13.8	3.2	E37361
Do.	do.	T	4- by 1-1/2-inch (W)		2,140	2,310	2,510	12.7	3.1	E37362
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,070	2,210	2,450	12.1	3.1	E37363
East Diamond	No. 11	T	6- by 3-inch (W)		1,970	2,030	2,360	6.2	3.4	D13060
Do.	do.	T	3- by 2-inch (W)		1,960	2,040	2,340	5.7	3.2	D13061
Do.	do.	T	2- by 1-1/2-inch (W)		1,970	2,050	2,360	6.3	3.5	D13062
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,970	2,050	2,360	6.2	3.3	D13063
Do.	do.	T	3/4- by 1/4-inch (W)		2,000	2,050	2,420	6.6	3.3	D13064
Do.	do.	T	1/4-inch by 28-mesh (W)		1,970	2,130	2,420	6.1	3.0	D13065
Eureka	do.	T	6-inch lump		1,950	2,020	2,330	10.2	5.2	B30697
Do.	do.	T	6- by 3-inch		1,920	2,030	2,400	7.7	3.9	B32059
Do.	do.	T	6- by 1-1/4-inch		1,990	2,090	2,440	8.3	4.3	B30699
Do.	do.	T	3- by 1-1/4-inch		1,920	2,080	2,380	9.8	4.4	B32060
Do.	do.	T	1-1/4-inch by 0		1,980	2,030	2,260	12.5	4.8	B30700
Fies	do.	T	7- by 3-inch (W)		1,950	2,020	2,320	6.2	3.5	E36884
Do.	do.	T	3- by 1-1/2-inch (W)		1,960	2,040	2,340	6.1	3.2	E36885
Do.	do.	T	1-1/2- by 1/4-inch (W)		1,940	2,050	2,270	7.1	3.0	E36886
Do.	do.	T	1/4-inch by 28-mesh (W)		1,940	2,050	2,230	6.8	3.0	E36887
Flat Creek	No. 9	T	6-inch lump		2,030	2,120	2,310	10.6	2.9	B30832
Do.	do.	T	6- by 3-inch		1,940	2,010	2,320	10.0	3.9	B30833
Do.	do.	T	3- by 2-inch		1,940	2,010	2,320	11.7	4.3	B30834
Do.	do.	T	2-inch by 0		1,970	2,030	2,240	13.2	3.7	B30835
Grapevine	No. 11	M		3	2,100	2,160	2,240	9.6	3.8	A24141 to A24143
Do.	No. 9	T	6-inch lump		2,260	2,430	2,680	8.1	2.3	B78493
Do.	do.	T	6- by 3-inch		2,020	2,070	2,310	10.2	4.0	B78494
Do.	do.	T	3- by 1-1/4-inch		1,980	2,030	2,250	10.3	3.8	B78495
Do.	do.	T	1-1/4-inch by 10-mesh		1,980	2,030	2,230	11.5	4.2	B78496
Do.	do.	T	10-mesh by 0		2,020	2,090	2,140	14.0	3.4	B78497
Do.	No. 11	T	6- by 3-inch		1,920	2,080	2,360	6.5	3.5	D16700
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,000	2,100	2,380	6.9	3.5	D16701
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,030	2,150	2,380	5.8	3.3	D16702
Do.	do.	T	1/8-inch by 0		1,970	2,040	2,220	20.0	5.0	D16703
Jenkins	do.	T	Run-of-mine		2,030	2,080	2,290	11.0	4.0	A50851
Kentucky Block No. 2	do.	T	2-inch lump		2,000	2,070	2,420	7.2	3.8	B30695
Do.	do.	T	2-inch by 0		1,990	2,040	2,330	11.4	4.1	B30696
Lone Pine	No. 9	T	Run-of-mine		2,000	2,130	2,450	10.0	4.1	B54055
Magnolia	do.	T	6-inch lump		1,920	1,970	2,180	10.5	4.1	D41548
Do.	do.	T	6- by 4-inch		1,920	1,940	2,100	10.6	4.3	D41549
Do.	do.	T	4- by 1-1/4-inch (W)		1,920	1,970	2,210	10.0	3.8	D41550
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,920	1,940	2,150	9.7	3.7	D41551
Do.	No. 11	T	6-inch lump		2,030	2,100	2,360	6.2	3.5	D14544
Do.	do.	T	6- by 4-inch		2,000	2,090	2,290	6.5	3.3	D14545
Do.	do.	T	4- by 1-1/4-inch (W)		1,970	2,080	2,360	6.5	3.5	D14546
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,970	2,080	2,360	7.4	3.4	D14547
Do.	No. 12	T	4- by 1-1/4-inch (W)		1,970	2,360	2,620	14.4	3.3	D14552
Do.	do.	T	1-1/4- by 28-mesh (W)		2,150	2,390	2,600	15.7	3.2	D14553

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Oriole	No. 11	T	7- by 3-inch (W)		1,970	2,050	2,380	6.2	3.2	E55672	
Do.	do.	T	3- by 1-1/2-inch (W)		1,920	2,010	2,260	6.7	3.5	E55673	
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,940	2,040	2,420	7.0	3.5	E55674	
Do.	do.	T	3/4- by 1/4-inch (W)		1,960	2,040	2,330	6.9	3.5	E55675	
Do.	do.	T	1/4-inch by 28-mesh (W)		1,990	2,080	2,320	8.6	3.4	E55676	
Pine Hill	do.	T	6-inch lump		2,030	2,090	2,360	6.5	3.2	B77557	
Do.	do.	T	6- by 1-1/4-inch		2,020	2,120	2,420	5.6	3.3	B77558	
Do.	do.	T	6- by 3-inch		2,020	2,100	2,400	5.5	3.5	B77559	
Do.	do.	T	3- by 1-1/4-inch		1,990	2,120	2,390	6.5	3.5	B77560	
Do.	do.	T	1-1/4-inch by 0		1,980	2,070	2,300	11.2	4.2	B77561	
Pine Hill No. 2	No. 9	T	6-inch lump		2,080	2,210	2,420	9.3	3.0	D19560	
Do.	do.	T	6- by 3-inch		2,000	2,080	2,360	9.3	3.6	D19561	
Do.	do.	T	3- by 1-1/4-inch		2,030	2,080	2,330	10.0	4.1	D19562	
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,330	11.4	4.9	D19563	
Pleasant View	No. 11	T	6- by 3-inch (W)		2,030	2,080	2,380	5.7	3.2	D42076	
Do.	do.	T	3- by 2-inch (W)		2,000	2,080	2,380	5.8	3.1	D42077	
Do.	do.	T	2- by 1-1/2-inch (W)		2,000	2,090	2,400	6.5	3.1	D42078	
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,000	2,050	2,380	6.7	3.1	D42079	
Do.	do.	T	3/4- by 1/4-inch (W)		1,970	2,050	2,380	7.1	3.1	D42080	
Do.	do.	T	1/4-inch by 28-mesh (W)		2,030	2,130	2,440	6.3	2.9	D42081	
Pond River	do.	T	7- by 4-inch (W)		1,930	2,170	2,420	6.1	3.3	E36891	
Do.	do.	T	4- by 1-1/2-inch (W)		1,960	2,150	2,430	5.6	2.9	E36892	
Do.	do.	T	1-1/2-inch by 10-mesh (W)		2,000	2,200	2,440	5.9	2.6	E36893	
Do.	do.	T	3/8-inch by 10-mesh (W)		2,020	2,200	2,440	7.3	2.7	E36894	
Do.	No. 12	T	6- by 3-inch (W)		2,140	2,200	2,500	13.0	3.2	D15140	
Do.	do.	T	3- by 2-inch (W)		2,100	2,180	2,470	12.7	3.2	D15141	
Do.	do.	T	2- by 1-1/2-inch (W)		2,000	2,100	2,260	13.8	3.4	D15142	
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,100	2,150	2,360	13.1	3.4	D15143	
Do.	do.	T	3/8-inch by 28-mesh (W)		2,130	2,180	2,470	14.8	3.3	D15144	
Red Bud	No. 11	T	3-inch lump		2,030	2,080	2,230	5.2	3.3	D19557	
Do.	do.	T	3- by 1-1/4-inch		1,970	2,030	2,230	10.9	4.4	D19558	
Do.	do.	T	1-1/4-inch by 0		2,020	2,050	2,260	13.7	4.9	D19559	
Ruby No. 1	do.	T	6- by 1-1/2-inch (W)		2,030	2,100	2,420	5.9	3.6	D41833	
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,000	2,130	2,450	6.4	3.3	D41834	
Do.	No. 12	T	4- by 2-inch (W)		2,190	2,380	2,590	13.8	2.9	D42935	
Do.	do.	T	2-inch by 28-mesh (W)		2,180	2,230	2,520	13.1	3.1	D42936	
Security	No. 11	T	Run-of-mine		1,970	2,230	2,350	13.9	4.1	A50948	
Sunlight No. 1	do.	M		3	2,220	2,420	2,610	4.3	2.8	A43401 to A43403	
Sunlight No. 2	No. 12	M		3	2,110	2,220	2,440	10.0	3.0	A43405 to A43407	
Trio	No. 11	M		3	2,050	2,160	2,320	9.8	3.8	A24125 to A24127	
Victoria No. 9	No. 9	M		3	1,960	2,070	2,130	11.3	3.4	A24981 to A24983	
Victoria No. 11	No. 11	M		3	2,130	2,190	2,310	8.0	3.3	A24149 to A24151	
Winstead	do.	T	2-inch lump		2,000	2,050	2,420	9.0	4.4	B33160	
Do.	do.	T	2- by 1-1/4-inch		1,980	2,020	2,280	15.8	5.0	B33161	
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,050	2,380	15.0	4.5	B33162	
Do.	do.	T	3/4-inch by 0		2,050	2,130	2,280	22.5	4.9	B33163	
Wright	do.	T	6-inch lump		2,070	2,160	2,460	4.8	2.9	B77562	
Do.	do.	T	6- by 3-inch		2,050	2,150	2,410	5.1	3.0	B77563	
Do.	do.	T	3- by 1-1/4-inch		2,050	2,160	2,410	6.5	3.2	B77564	
Do.	do.	T	1-1/4-inch by 0		1,960	2,040	2,240	11.4	4.0	B77565	
Do.	do.	T	6- by 1-1/4-inch		2,100	2,180	2,470	4.7	3.0	B77566	
Mannington											
Hickory Hill	No. 6	T	3-inch lump		2,030	2,200	2,530	14.2	4.2	B33067	
Do.	do.	T	3- by 1-1/4-inch		2,160	2,300	2,590	14.1	3.7	B33068	
Do.	do.	T	1-1/4- by 1/2-inch		2,190	2,310	2,550	20.3	3.8	B33069	
Do.	do.	T	1/2-inch by 0		2,170	2,270	2,610	26.5	4.1	B33070	
Williams	do.	T	6- by 2-1/4-inch		1,940	2,140	2,420	4.1	1.6	B31101	
Do.	do.	T	1-1/4- by 3/8-inch		1,980	2,230	2,450	5.0	1.8	B31102	
Do.	do.	T	3/8-inch by 0		2,010	2,080	2,410	8.4	2.5	B31103	
Williams No. 4	do.	T	1-1/4- by 3/4-inch (W)		1,930	2,050	2,420	2.8	1.3	D16294	
Do.	do.	T	3/4- by 1/8-inch (W)		1,920	2,100	2,420	3.2	1.3	D16295	

1 M, mine sample; T, tipple sample 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Hopkins County (Con.)										
Mannington										
Williams No. 4	No. 6	T	1/8-inch by 0		1,920	2,080	2,420	8.4	2.1	D16296
Do.	do.	T	1/8-inch by 0 (W)		2,050	2,100	2,420	2.7	1.2	D16297
Do.	do.	T	2- by 1-1/4-inch		1,940	2,030	2,330	4.8	1.7	D16298
Mortons Gap										
Moore	No. 9	T	2-1/2-inch lump		2,000	2,050	2,370	10.8	4.2	B34435
Do.	do.	T	2-1/2- by 1-1/4-inch		1,910	1,990	2,330	11.8	4.3	B34436
Do.	do.	T	1-1/4- by 1/2-inch		1,950	2,010	2,280	11.6	3.8	B34437
Do.	do.	T	1/2-inch by 0		1,950	1,990	2,220	15.0	3.9	B34438
Moss Hill	do.	T	6-inch lump		2,040	2,140	2,570	9.0	3.1	B30570
Do.	do.	T	6- by 3-inch		2,000	2,090	2,370	10.1	3.7	B30571
Do.	do.	T	3- by 3/4-inch		1,960	2,090	2,340	11.3	4.0	B30572
Do.	do.	T	3/4- by 1/4-inch		1,970	2,070	2,370	12.5	4.4	B30573
Do.	do.	T	1/4-inch by 0		1,980	2,030	2,270	15.4	4.3	B30574
Moss Hill No. 1	do.	M		3	1,950	2,060	2,260	9.3	4.1	A24974 to A24976
Mortons Gap										
Moss Hill No. 12	do.	T	6-inch lump		2,050	2,180	2,360	7.7	3.2	D17208
Do.	do.	T	6- by 1-1/4-inch		1,940	2,050	2,280	10.0	3.8	D17209
Do.	do.	T	3- by 1-1/4-inch		1,990	2,050	2,310	10.2	3.9	D17210
Do.	do.	T	1-1/4-inch by 0		1,920	2,100	2,280	14.6	4.3	D17211
Ninth Vein	do.	T	2-1/2-inch lump		1,990	2,030	2,430	9.6	4.4	B35299
Do.	do.	T	2-1/2- by 1-1/4-inch		1,990	2,030	2,470	10.0	4.5	B35300
Do.	do.	T	1-1/4- by 3/4-inch		1,980	2,020	2,410	10.8	4.5	B35301
Do.	do.	T	3/4-inch by 0		1,940	2,020	2,390	12.3	4.7	B35302
Nebo										
Klondike	do.	T	7- by 4-inch (W)		1,970	2,070	2,420	9.3	3.5	E53490
Do.	do.	T	1-1/2-inch by 0 (W)		1,950	2,020	2,310	9.3	3.6	E53491
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,960	2,020	2,310	8.9	3.4	E53492
Nortonville										
Blue Flame	do.	T	7-inch lump		2,000	2,110	2,360	9.0	3.4	E53493
Do.	do.	T	7- by 3-inch		2,000	2,140	2,360	8.9	3.3	E53494
Do.	do.	T	3- by 2-inch		1,940	2,070	2,340	10.1	3.6	E53495
Do.	do.	T	2-inch by 0		1,980	2,060	2,360	10.5	3.7	E53496
Homestead	No. 11	T	6- by 3-inch (W)		2,020	2,140	2,450	5.3	3.2	D14270
Do.	do.	T	3- by 1-1/2-inch (W)		1,970	2,150	2,450	5.4	3.3	D14271
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,970	2,130	2,450	5.8	3.2	D14272
Do.	do.	T	1/4-inch by 28-mesh (W)		2,080	2,420	2,470	8.8	3.2	D14273
Do.	No. 12	T	4- by 1-1/2-inch (W)		2,330	2,440	2,620	12.7	3.0	D14268
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,130	2,360	2,620	14.2	3.2	D14269
Jenkins	No. 6	T	1-1/4- by 3/4-inch (W)		1,990	2,050	2,340	4.0	2.8	E55462
Do.	do.	T	3/4- by 1/4-inch (W)		2,000	2,050	2,100	4.4	2.9	E55463
Do.	do.	T	1/4-inch by 0		2,000	2,070	2,340	6.0	3.4	E55464
Morris	No. 9	T	2-1/2-inch lump		2,010	2,030	2,320	10.9	4.2	B33261
Do.	do.	T	2-1/2- by 1-inch		2,020	2,070	2,300	9.8	3.7	B33262
Do.	do.	T	1- by 1/2-inch		1,980	2,020	2,270	12.1	3.8	B33263
Do.	do.	T	1/2-inch by 0		1,920	2,030	2,090	16.4	3.3	B33264
Norco	No. 11	T	7-inch lump		1,910	2,010	2,210	5.0	3.3	E54031

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Do.	do.	T	7- by 3-inch (W)		1,950	2,010	2,350	5.9	3.6	E54032
Do.	do.	T	3- by 1-1/2-inch (W)		1,960	2,020	2,380	5.4	3.1	E54033
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,900	2,070	2,370	6.4	3.2	E54034
Do.	No. 12	T	6-inch lump		2,160	2,450	2,630	11.6	3.1	E53885
Do.	do.	T	6- by 3-inch (W)		2,140	2,450	2,620	11.2	3.3	E53886
Do.	do.	T	3- by 1-1/2-inch (W)		2,380	2,470	2,630	11.7	3.3	E53887
Do.	do.	T	1-1/2-inch by 10-mesh (W)		2,380	2,500	2,630	14.6	3.4	E53888
Norton	No. 9	T	6-inch lump		2,050	2,140	2,530	10.2	2.9	B30644
Do.	do.	T	6- by 3-inch		2,000	2,040	2,340	9.5	3.9	B30645
Do.	do.	T	3- by 1-1/4-inch		1,960	2,020	2,380	10.5	4.2	B30646
Do.	do.	T	1-1/4-inch by 0		1,980	2,040	2,310	11.2	3.8	B30647
Do.	do.	T	2-inch by 0		1,970	2,020	2,290	11.0	3.9	B33239
Do.	do.	T	1-1/4-inch by 0		1,950	2,010	2,240	11.5	3.7	B33240
Norton-East Opening	No. 11	T	1-1/4-inch lump		1,940	2,100	2,330	12.2	4.9	C35441
Do.	do.	T	1-1/4-inch by 0		2,030	2,140	2,360	12.8	4.2	C35442
Norton-East Opening No. 1	do.	T	8-inch lump		1,940	2,050	2,280	5.1	3.6	D15582
Do.	do.	T	8- by 3-inch		1,920	2,030	2,340	8.8	4.5	D15583
Do.	do.	T	3- by 1-1/2-inch		1,940	2,130	2,340	5.0	3.1	D15584
Do.	do.	T	1-1/2- by 1-inch (W)		1,920	2,050	2,180	5.8	3.4	D15585
Do.	do.	T	1-inch by 28-mesh (W)		2,000	2,100	2,360	8.1	3.5	D15586
Norton No. 5	No. 9	M		3	2,030	2,090	2,190	10.5	3.2	A24918 to A24920
Providence										
Stony Point	do.	T	6-inch lump		1,950	2,040	2,320	10.0	3.5	E38570
Do.	do.	T	6- by 2-inch		1,970	2,010	2,180	10.3	4.1	E38571
Do.	do.	T	2-inch by 0		1,940	2,000	2,140	11.8	3.9	E38572
Do.	do.	T	2-inch by 28-mesh		1,980	2,060	2,320	8.9	3.2	E38573
Richland										
Carbon Valley	do.	T	6-inch lump		2,000	2,050	2,460	11.0	3.6	B35113
Do.	do.	T	6- by 3-inch		1,980	2,020	2,460	10.2	4.2	B35114
Do.	do.	T	3- by 1-1/4-inch		1,930	2,000	2,370	11.0	4.2	B35115
Do.	do.	T	1-1/4-inch by 0		1,940	2,000	2,350	13.8	4.5	B35116
Saint Charles										
Fox Run	do.	T	3-inch lump		1,980	2,120	2,450	8.6	3.4	B30975
Do.	do.	T	3- by 2-inch		1,950	2,020	2,320	10.0	4.2	B30976
Do.	do.	T	2-inch by 0		1,940	2,050	2,350	10.7	4.1	B30977
Do.	do.	T	1-1/4-inch by 0		1,980	2,020	2,310	11.9	4.5	B30978
Sentry										
Sentry	No. 14	T	6-inch lump		2,060	2,190	2,360	11.7	5.4	C37744
Do.	do.	T	6- by 3-inch (W)		2,060	2,140	2,360	13.8	6.5	C37745
Do.	do.	T	3- by 2-inch (W)		2,050	2,160	2,360	11.4	5.4	C37746
Do.	do.	T	2- by 1-1/2-inch (W)		2,010	2,110	2,360	11.7	5.2	C37747
Do.	do.	T	1-1/2- by 1-inch (W)		2,010	2,090	2,360	11.4	4.9	C37748
Do.	do.	T	1-inch by 0 (W)		2,020	2,220	2,460	11.6	4.4	C37749
White Plains										
Morgan	No. 6	T	1-1/2-inch lump		2,010	2,050	2,340	4.3	2.8	B31223
Do.	do.	T	1-1/2- by 5/16-inch		2,000	2,070	2,280	6.3	3.6	B31224
Do.	do.	T	5/16-inch by 0		1,990	2,050	2,280	11.6	5.2	B31225
McLean County										
Island										
Blades & Rector	No. 9	T	2-inch lump		1,990	2,140	2,490	10.2	3.6	B34786
Do.	do.	T	2- by 3/4-inch		2,000	2,130	2,390	9.6	3.5	B34787
Do.	do.	T	3/4- by 3/8-inch		2,000	2,170	2,380	11.4	3.7	B34788
E.M.T.	do.	M		3	2,100	2,180	2,270	10.7	3.6	A24109 to A24111
Muhlenberg County										
Beech Creek										
Beech Creek	do.	T	6-inch lump		2,020	2,130	2,680	9.5	3.3	B78418
Do.	do.	T	6- by 3-inch		2,020	2,130	2,680	8.9	3.2	B78419
Do.	do.	T	3- by 2-inch		1,990	2,050	2,330	8.8	3.4	B78420

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Muhlenberg County (Con.)										
Beech Creek										
Beech Creek	No. 9	T	2- by 1-1/4-inch		1,990	2,050	2,330	8.5	4.0	B78421
Do.	do.	T	1-1/4-inch by 0		1,990	2,030	2,230	10.3	4.0	B78422
Do.	do.	M		3	2,050	2,130	2,260	11.1	3.7	A24117 to A24119
Do.	No. 11	T	8- by 6-inch		2,030	2,100	2,420	5.5	2.8	D20217
Do.	do.	T	6- by 3-inch		1,940	2,050	2,280	7.9	3.8	D20218
Do.	do.	T	3- by 2-inch		1,970	2,050	2,280	9.6	4.1	D20219
Do.	do.	T	2- by 1-1/4-inch		1,970	2,050	2,280	10.9	4.0	D20220
Do.	do.	T	1-1/4-inch by 0		1,970	2,050	2,260	12.8	3.9	D20221
Kirk	No. 9	T	6-inch lump		1,970	2,110	2,580	9.2	3.5	B78368
Do.	do.	T	6- by 3-inch		1,970	2,110	2,580	9.3	3.6	B78369
Do.	do.	T	3- by 1-1/4-inch		1,970	2,050	2,520	9.0	3.8	B78370
Do.	do.	T	1-1/4-inch by 0		1,970	2,040	2,500	11.1	4.0	B78371
Beech Creek Junction										
Willow Creek	do.	T	3-inch lump		1,920	2,010	2,380	10.2	4.8	B34390
Do.	do.	T	3- by 1-1/4-inch		1,950	2,050	2,410	10.5	4.3	B34391
Do.	do.	T	1-1/4-inch by 0		1,990	2,090	2,410	13.2	4.9	B34392
Belton										
Belcano	No. 6	T	8- by 3-inch		1,970	2,030	2,150	4.5	3.0	D20213
Do.	do.	T	3- by 2-inch		2,000	2,050	2,150	4.9	3.1	D20214
Do.	do.	T	1- by 1/4-inch (W)		1,960	2,040	2,340	5.1	3.1	D20215
Do.	do.	T	1/4-inch by 0 (W)		1,920	1,970	2,130	11.9	5.0	D20216
C & P	do.	M		3	2,050	2,130	2,320	5.5	3.8	B30759 to B30761
Do.	do.	T	3-inch lump		2,030	2,100	2,430	4.2	3.1	B33475
Do.	do.	T	3- by 1-1/4-inch		2,010	2,080	2,100	5.7	3.5	B33476
Do.	do.	T	1-1/4- by 3/4-inch		2,000	2,080	2,160	6.0	3.6	B33477
Do.	do.	T	3/4-inch by 0		1,990	2,030	2,320	7.7	3.9	B33478
Bevier										
Bevier No. 1	No. 9	T	6- by 3-inch		1,980	2,080	2,360	9.1	3.9	B30855
Do.	do.	T	3- by 2-inch		1,950	2,030	2,350	9.8	4.3	B30856
Do.	do.	T	2- by 1-1/4-inch		1,940	2,020	2,360	9.7	4.5	B30857
Do.	do.	T	1-1/4- by 3/8-inch		1,940	2,030	2,370	10.8	4.7	B30858
Do.	do.	T	1-1/4-inch by 0		1,950	2,050	2,300	11.7	4.7	B30859
Bevier No. 2	do.	T	6- by 3-inch		1,990	2,020	2,400	9.9	4.1	B78975
Do.	do.	T	3- by 2-inch		1,990	2,020	2,400	10.6	4.3	B78976
Do.	do.	T	2- by 1-1/4-inch		1,990	2,020	2,400	10.8	4.2	B78977
Do.	do.	T	1-1/4-inch by 0		1,990	2,010	2,400	12.7	4.3	B78978
Do.	do.	T	1-1/4- by 3/8-inch		2,000	2,030	2,260	10.5	4.0	B78979
Do.	do.	T	3/8-inch by 0		2,030	2,070	2,170	15.0	3.9	B78980
Bevier No. 3	do.	T	6-inch lump		2,000	2,070	2,470	10.0	3.4	B33550
Do.	do.	T	6-inch by 0		1,960	2,000	2,300	10.2	3.7	B33549
Crescent	do.	M		3	2,080	2,170	2,270	10.5	3.9	A24101 to A24103
Do.	do.	T	6- by 3-inch		1,970	2,050	2,480	10.6	4.0	B30202
Do.	do.	T	3- by 2-inch		1,980	2,030	2,460	9.4	3.8	B30203
Do.	do.	T	2- by 1-1/4-inch		1,950	2,010	2,330	10.1	4.1	B30204
Do.	do.	T	1-1/4-inch by 0		1,910	2,040	2,250	13.1	4.4	B30205

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Browder										
Browder	No. 9	M		3	2,000	2,040	2,090	12.1	4.0	A24121 to A24123
Do.	do.	T	6-inch lump		1,940	1,970	2,150	12.2	4.8	D17383
Do.	do.	T	6- by 3-inch		1,920	2,000	2,260	9.6	4.6	D17384
Do.	do.	T	3- by 1-1/4-inch		1,900	2,000	2,260	9.5	4.2	D17385
Do.	do.	T	1-1/4-inch by 0		1,920	1,970	2,260	11.9	4.5	D17386
Roof	do.	T	2-1/2-inch lump		1,920	2,050	2,380	9.7	4.2	B34342
Do.	do.	T	2-1/2- by 1-1/4-inch		1,940	2,070	2,350	10.5	4.2	B34343
Do.	do.	T	1-1/4- by 3/4-inch		2,030	2,090	2,420	10.9	4.7	B34344
Do.	do.	T	3/4-inch by 0		2,030	2,080	2,380	13.4	4.9	B34345
Do.	do.	M		3	1,980	2,100	2,420	10.6	4.3	B34346 to B34348
Central City										
Brier Creek	No. 11	T	6- by 3-inch (W)		2,060	2,170	2,480	4.3	2.6	E38700
Do.	do.	T	3- by 2-inch (W)		2,020	2,110	2,440	5.7	2.9	E38701
Do.	do.	T	2- by 1-1/2-inch (W)		2,000	2,140	2,430	6.2	3.1	E38702
Do.	do.	T	1-1/2- by 7/16-inch (W)		2,030	2,150	2,420	6.2	3.0	E38703
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,950	2,110	2,420	7.1	3.0	E38704
Do.	do.	T	1-1/2-inch by 48-mesh (W)		2,010	2,110	2,380	7.4	3.0	E38705
Do.	do.	T	7/16-inch by 10-mesh		2,030	2,100	2,350	8.9	3.0	E38706
Do.	do.	T	10- by 48-mesh		2,060	2,130	2,330	14.4	3.3	E38707
Do.	do.	T	10-mesh by 0		2,090	2,150	2,360	16.2	3.2	E38708
Brownie	No. 9	M		3	2,030	2,120	2,200	11.7	2.8	A24922 to A24924
Cherry Hill	do.	T	Run-of-mine		1,980	2,050	2,310	11.6	4.0	B57172
Do.	do.	T	7-inch lump		1,990	2,110	2,390	13.2	3.1	E38709
Do.	do.	T	7- by 3-inch		1,930	2,020	2,240	10.1	3.7	E38710
Do.	do.	T	3- by 2-inch		1,930	2,010	2,280	10.1	4.1	E38711
Do.	do.	T	2-inch by 0		1,920	2,000	2,120	14.2	4.1	E38712
Lakeside	No. 11	T	Run-of-mine		2,050	2,150	2,360	5.1	2.9	B78621
Paradise	do.	T	6- by 4-inch (W)		1,950	2,130	2,450	5.9	3.4	E38563
Do.	do.	T	4- by 2-inch (W)		1,970	2,090	2,420	6.6	3.7	E38564
Do.	do.	T	2- by 1-1/2-inch (W)		1,940	2,140	2,440	6.5	3.5	E38565
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,950	2,150	2,440	6.6	3.5	E38566
Do.	do.	T	3/4- by 1/4-inch (W)		1,940	2,060	2,400	6.6	3.6	E38567
Do.	do.	T	3/4-inch by 28-mesh (W)		1,910	2,100	2,420	6.4	3.4	E38568
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,940	2,060	2,400	7.0	3.6	E38569
Wilson	No. 9	T	Run-of-mine		1,970	2,020	2,340	10.7	3.7	B53970
Cleaton										
Holt	do.	T	6- by 3-inch		2,010	2,160	2,410	9.6	3.3	B79057
Do.	do.	T	3- by 1-1/4-inch		2,000	2,100	2,420	8.7	3.5	B79058
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,310	11.0	3.8	B79059
Do.	do.	T	3- by 2-inch		1,820	2,020	2,360	8.5	3.5	B79060
Do.	do.	T	2-inch by 0		2,000	2,040	2,300	9.6	3.6	B79061
Drakesboro										
Black Diamond No. 2	do.	M		3	2,010	2,110	2,160	10.8	3.2	A24133 to A24135
Do.	do.	T	6-inch lump		1,940	2,020	2,360	11.3	4.2	B33567
Do.	do.	T	6- by 3-inch		1,940	2,020	2,360	9.8	4.1	B33568
Do.	do.	T	3- by 1-1/4-inch		1,920	1,980	2,310	9.7	4.1	B33569
Do.	do.	T	1-1/4-inch by 0		1,920	2,010	2,270	12.2	4.0	B33570
Black Diamond No. 3	No. 11	M		5	1,960	2,030	2,400	8.1	4.5	B35367 to B35371
Do.	do.	T	6-inch lump		2,030	2,070	2,470	6.7	4.3	B78837
Do.	do.	T	6- by 3-inch		2,040	2,090	2,470	7.2	4.4	B78838
Do.	do.	T	3- by 2-inch		2,020	2,070	2,530	6.7	4.1	B78839
Do.	do.	T	2- by 1-1/4-inch		2,040	2,120	2,500	8.7	4.3	B78840
Do.	do.	T	1-1/4-inch by 0		2,070	2,110	2,530	11.6	4.3	B78841
Black Diamond No. 6	No. 9	T	6-inch lump		1,970	2,190	2,340	6.4	3.0	D98115
Do.	do.	T	6- by 3-inch		2,000	2,210	2,270	7.0	3.3	D98116
Do.	do.	T	3- by 1-1/4-inch		2,000	2,190	2,260	8.5	3.7	D98117
Do.	do.	T	1-1/4-inch by 0		2,010	2,200	2,270	11.4	3.8	D98118
Caney Creek	No. 11	T	7- by 3-inch (W)		1,940	2,090	2,320	5.6	3.1	E56326
Do.	do.	T	3- by 1-1/2-inch (W)		2,010	2,130	2,500	6.1	3.0	E56327

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Muhlenberg County (Con.)										
Drakesboro										
Caney Creek	No. 11	T	1-1/2- by 1-inch (W)		2,000	2,130	2,460	6.2	3.3	E56328
Do.	do.	T	1- by 1/4-inch (W)		2,030	2,110	2,420	6.7	3.3	E56329
Do.	do.	T	1/4-inch by 28-mesh (W)		2,030	2,130	2,420	6.6	3.1	E56330
Kirk No. 5	No. 9	T	7- by 3-inch		1,920	1,990	2,300	9.4	3.4	E37801
Do.	do.	T	3- by 1-1/4-inch (W)		1,900	1,970	2,280	9.2	3.6	E37802
Do.	do.	T	1-1/4-inch by 0		1,970	2,020	2,200	10.8	3.9	E37803
Do.	do.	T	1-1/4-inch by 28-mesh (W)		1,980	2,080	2,240	8.5	2.9	E37804
Graham										
Graham	do.	M		5	1,950	2,090	2,330	11.3	3.8	B33869 to B33873
Do.	do.	T	7-inch lump		1,940	2,010	2,390	9.8	3.9	E54429
Do.	do.	T	7- by 3-inch (W)		1,960	2,030	2,260	9.9	4.0	E54430
Do.	do.	T	3- by 1-1/4-inch (W)		2,050	2,100	2,220	8.3	3.2	E54431
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,040	2,150	12.3	4.0	E54432
Harps Hill	do.	T	2-1/2-inch lump		1,990	2,100	2,510	8.9	3.6	B35117
Do.	do.	T	2-1/2- by 1-1/4-inch		1,980	2,080	2,450	9.8	3.9	B35118
Do.	do.	T	1-1/4- by 3/4-inch		1,980	2,150	2,440	9.9	3.7	B35119
Do.	do.	T	3/4-inch by 0		1,940	2,110	2,420	14.0	4.9	B35120
Scott & Bassett	do.	T	3-inch lump		2,080	2,150	2,420	8.0	2.9	D49474
Do.	do.	T	3- by 1-1/4-inch		2,100	2,210	2,470	10.8	3.2	D49475
Do.	do.	T	1-1/4- by 1/4-inch		1,970	2,080	2,360	9.9	3.6	D49476
Do.	do.	T	1/4-inch by 0		2,080	2,100	2,180	12.7	3.5	D49477
Wice	do.	T	3-inch lump		2,040	2,140	2,390	9.4	3.3	D49257
Do.	do.	T	3- by 1-1/4-inch		1,940	2,080	2,360	10.0	4.1	D49258
Do.	do.	T	1-1/4- by 1/2-inch		2,000	2,080	2,360	10.8	4.1	D49259
Do.	do.	T	1/2-inch by 0		2,000	2,100	2,420	12.4	4.6	D49260
Greenville										
H. & J.	No. 6	T	2-inch lump		2,000	2,170	2,450	10.5	2.6	D80927
Do.	do.	T	1- by 1/4-inch		1,980	2,050	2,310	8.0	2.5	D80928
Pond Creek	No. 9	T	6-inch lump		1,940	1,990	2,220	8.3	3.6	E54433
Do.	do.	T	6- by 4-inch		1,940	1,980	2,260	9.4	4.1	E54434
Do.	do.	T	4- by 1-3/4-inch		1,950	1,990	2,270	9.8	4.5	E54435
Do.	do.	T	1-3/4- by 1-1/4-inch		1,880	1,970	2,260	9.5	4.2	E54436
Do.	do.	T	1-1/4-inch by 0		1,960	2,000	2,140	14.1	4.6	E54437
Skibo	No. 11	T	3-inch lump		2,010	2,270	2,470	6.3	3.3	B72716
Do.	do.	T	3- by 1-1/2-inch (W)		2,010	2,260	2,470	6.5	3.1	B72717
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,010	2,250	2,470	7.1	3.2	B72718
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,000	2,160	2,400	6.1	3.4	E54035
Hillside										
Lelia	No. 9	M		3	2,040	2,080	2,130	13.3	3.5	A24926 to A24928
Luzerne										
Luzerne	do.	M		3	1,970	2,050	2,090	11.3	3.7	A24137 to A24139
Do.	do.	T	6-inch lump		2,050	2,120	2,390	9.6	3.0	B30449
Do.	do.	T	6- by 3-inch		1,980	2,040	2,350	9.1	3.6	B30450
Do.	do.	T	3- by 1-1/4-inch		1,980	2,020	2,370	10.0	3.9	B30451
Do.	do.	T	1-1/4-inch by 0		1,990	2,050	2,280	14.3	4.5	B30452

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Madisonville (Hopkins County)										
Moss Hill No. 13	No. 9	T	6-inch lump		2,100	2,180	2,330	12.3	3.4	D97277
Do.	do.	T	6- by 3-inch		2,030	2,150	2,310	8.9	3.7	D97278
Do.	do.	T	3- by 1-1/4-inch		1,980	2,030	2,310	9.7	4.2	D97279
Do.	do.	T	1-1/4-inch by 0		1,970	2,030	2,130	12.1	4.4	D97280
Do.	do.	T	3/4-inch by 0		1,920	1,940	2,160	11.7	4.4	D98121
Vogue	No. 11	T	7- by 3-inch (W)		1,930	2,150	2,450	6.2	3.6	E54856
Do.	do.	T	3- by 1-1/2-inch (W)		1,990	2,140	2,460	6.3	3.6	E54857
Do.	do.	T	1-1/2- by 1/4-inch (W)		2,020	2,190	2,460	6.3	3.6	E54858
Do.	do.	T	1/4-inch by 28-mesh (W)		1,990	2,190	2,460	10.3	3.8	E54859
Do.	No. 12	T	7- by 3-inch (W)		2,050	2,170	2,530	12.8	3.2	E54850
Do.	do.	T	3- by 2-inch (W)		2,040	2,160	2,530	12.5	3.4	E54851
Do.	do.	T	2- by 1-1/2-inch (W)		2,040	2,190	2,550	12.0	3.2	E54852
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,040	2,200	2,530	12.2	3.3	E54853
Do.	do.	T	3/4- by 1/4-inch (W)		1,960	2,150	2,520	13.5	3.3	E54854
Do.	do.	T	1/4-inch by 28-mesh (W)		2,020	2,120	2,460	12.4	3.3	E54855
Martwick										
Martwick	No. 9	M		3	2,030	2,110	2,220	11.1	3.4	A24129 to A24131
Do.	do.	T	6-inch lump		2,080	2,190	2,690	10.4	2.9	B30026
Do.	do.	T	6- by 3-inch		1,960	2,080	2,460	9.8	3.4	B30027
Do.	do.	T	3- by 2-inch		1,960	2,060	2,390	8.7	3.5	B30028
Do.	do.	T	3- by 1-1/4-inch		1,960	2,090	2,390	11.4	3.9	B30029
Do.	do.	T	2- by 1-1/4-inch		1,950	2,070	2,430	9.5	3.8	B30030
Do.	do.	T	1-1/4- by 1/8-inch		1,970	2,050	2,320	11.4	3.9	B30031
Do.	do.	T	1-1/4-inch by 0		1,960	2,020	2,260	12.6	3.7	B30032
Do.	do.	T	1/8-inch by 0		1,920	2,040	2,220	17.7	3.4	B30033
Mercer										
Dovey	do.	M		3	2,120	2,190	2,260	12.2	3.3	A24157 to A24159
Pacific	do.	M		3	2,000	2,070	2,150	12.2	3.1	A24930 to A24932
Do.	do.	T	6-inch lump		1,930	2,030	2,250	11.5	4.3	B78030
Do.	do.	T	6- by 3-inch		1,920	2,000	2,250	10.9	4.3	B78031
Do.	do.	T	3- by 1-1/4-inch		1,900	2,000	2,250	10.5	4.3	B78032
Do.	do.	T	1-1/4-inch by 0		1,900	2,000	2,230	12.1	4.0	B78033
Mogg										
Green River	No. 14	M		4	2,220	2,390	2,630	7.9	2.8	A83261 to A83264
Morton's Gap										
Moss Hill	No. 9	T	6-inch lump		1,940	2,100	2,430	8.6	3.4	B71171
Do.	do.	T	6- by 1-1/4-inch		1,950	2,070	2,380	10.6	4.2	B71172
Do.	do.	T	1-1/4- by 1/4-inch		1,950	2,070	2,370	11.4	4.2	B71173
Do.	do.	T	1-1/4- by 3/4-inch		1,950	2,110	2,380	10.7	4.1	B71174
Do.	do.	T	1/4-inch by 0		2,010	2,100	2,430	14.9	3.9	B71175
Nelson										
Nelson	do.	M		3	2,000	2,120	2,180	8.6	3.1	A24105 to A24107
Do.	do.	T	6-inch lump		1,990	2,070	2,490	9.4	3.2	B30303
Do.	do.	T	6- by 3-inch		2,040	2,070	2,390	9.3	3.4	B30304
Do.	do.	T	3- by 1-1/4-inch		1,930	2,060	2,400	10.8	3.8	B30305
Do.	do.	T	1-1/4-inch by 0		1,930	1,980	2,250	15.0	4.2	B30306
Powderly										
Powderly	do.	M		2	1,990	2,090	2,190	11.4	3.4	A24978 and A24979
Do.	do.	T	4-inch lump		2,000	2,080	2,360	8.8	4.5	D63892
Do.	do.	T	4- by 1-1/4-inch		1,970	2,100	2,360	8.6	3.9	D63893
Do.	do.	T	1-1/4-inch by 0		1,940	2,100	2,470	9.9	3.9	D63894
South Carrollton										
Rio Verde (Green River)	Green River	T	7-inch lump		2,180	2,450	2,520	6.1	1.8	D42354
Do.	do.	T	7- by 4-inch (W)		2,170	2,370	2,550	6.0	1.7	D42355
Do.	do.	T	4- by 1-1/2-inch (W)		2,200	2,460	2,600	7.0	1.9	D42356
Do.	do.	T	1-1/2- by 1/2-inch (W)		2,090	2,210	2,550	7.3	1.9	D42357
Do.	do.	T	1/2-inch by 10-mesh (W)		2,210	2,500	2,620	9.2	1.8	D42358
White Plains (Hopkins County)										
Manire No. 3	No. 9	T	3-inch lump		2,020	2,070	2,330	10.2	3.3	B77122
Do.	do.	T	3- by 1-1/4-inch		2,020	2,050	2,310	10.0	3.6	B77123

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Muhlenberg County (Con.)										
White Plains (Hopkins County)										
Manire No. 3	No. 9	T	1-1/4- by 1/2-inch		2,040	2,080	2,350	9.4	3.5	B77124
Do.	do.	T	1/2-inch by 0		2,020	2,080	2,330	13.6	3.8	B77125
Ohio County										
Beaver Dam										
Ken	do.	T	7-inch lump		2,090	2,400	2,530	7.7	2.7	E55124
Do.	do.	T	7- by 3-inch (W)		1,970	2,140	2,420	6.8	2.9	E55125
Do.	do.	T	3- by 1-1/2-inch (W)		1,980	2,070	2,380	7.4	3.5	E55126
Do.	do.	T	1-1/2- by 3/4-inch (W)		1,940	2,080	2,370	7.6	3.5	E55127
Do.	do.	T	3/4- by 1/4-inch (W)		1,920	2,090	2,370	7.5	3.4	E55128
Do.	do.	T	1/4-inch by 28-mesh (W)		1,940	2,150	2,400	7.9	3.2	E55129
R. B. & S.	do.	T	3-1/4-inch lump		2,080	2,180	2,470	10.4	3.0	D63600
Do.	do.	T	3-1/4- by 1-1/4-inch		1,990	2,040	2,340	8.4	3.7	D63601
Do.	do.	T	1-1/4- by 1/2-inch		2,000	2,080	2,310	10.4	4.2	D63602
Do.	do.	T	1/2-inch by 0		2,030	2,100	2,420	19.2	5.0	D63603
Centertown										
Blue Diamond	No. 14	M		3	2,060	2,200	2,260	11.7	5.8	A24950 to A24952
Doyal	do.	T	2-1/2-inch lump		1,930	2,000	2,410	10.0	4.5	B35493
Do.	do.	T	1-1/4-inch by 0		1,990	2,050	2,410	13.2	6.1	B35494
Do.	do.	M		3	1,940	2,020	2,370	9.6	4.6	B35495 to B35497
Kentucky Winner	No. 9	T	6-inch lump		2,000	2,050	2,260	8.9	3.2	D18427
Do.	do.	T	6- by 3-inch (W)		1,970	2,180	2,310	8.1	3.6	D18428
Do.	do.	T	3- by 1-1/2-inch (W)		2,120	2,360	2,450	8.3	2.9	D18429
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,360	2,440	2,570	7.8	2.7	D18430
Do.	do.	T	1-1/4-inch by 28-mesh (W)		2,210	2,420	2,500	8.1	2.7	D18431
Deanefield										
Phillips	-	M		1	1,980	2,150	2,240	9.8	3.3	A24987
Echols										
Echols	No. 9	M		3	2,030	2,110	2,200	12.4	3.3	A24934 to A24936
Do.	do.	T	6-inch lump		2,050	2,150	2,570	11.0	3.0	B31590
Do.	do.	T	6- by 3-inch		1,980	2,080	2,380	10.4	3.7	B31591
Do.	do.	T	3- by 1-1/4-inch		1,940	2,050	2,370	9.5	3.8	B31592
Do.	do.	T	1-1/4-inch by 0		1,970	2,040	2,320	13.8	4.3	B31593
Fordsville										
Canary	-	M		1	2,010	2,210	2,280	11.7	4.2	A24988
Cobb	-	M		1	1,910	2,130	2,300	8.9	3.7	D24986
Hartford										
Fort Hartford	No. 9	T	6-inch lump		2,090	2,170	2,620	9.3	2.9	B79871
Do.	do.	T	6- by 1-1/4-inch		2,050	2,100	2,370	9.2	3.0	B79872
Do.	do.	T	1-1/4-inch by 0		2,020	2,100	2,360	12.3	3.1	B79873
Riverview	do.	T	4- by 1-3/4-inch		2,030	2,180	2,470	10.3	4.4	D63721
Do.	do.	T	1-3/4-inch by 0		2,050	2,100	2,420	12.3	4.0	D63722
Tichenor	do.	T	6-inch lump		2,080	2,130	2,470	9.1	2.5	D42359
Do.	do.	T	6- by 5-inch		2,030	2,100	2,470	8.6	2.7	D42360
Do.	do.	T	5-inch by 0		1,920	1,970	2,360	11.1	3.4	D42361

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McHenry										
J. S. Fords	No. 9	T	3-inch lump		1,930	2,080	2,410	9.2	3.8	B34155
Do.	do.	T	3- by 1-1/4-inch		1,940	2,070	2,400	10.8	4.4	B34156
Do.	do.	T	1-1/4- by 1/2-inch		1,950	2,120	2,410	10.7	3.8	B34157
Do.	do.	T	1/2-inch by 0		2,000	2,140	2,330	14.4	4.5	B34158
Render	do.	M		3	2,050	2,110	2,190	10.3	2.7	A24942 to A24944
Williams	do.	M		3	2,010	2,040	2,090	10.6	3.0	A24946 to A24948
Prentiss										
Hamilton No. 1	do.	T	3-inch lump		2,030	2,160	2,370	10.3	3.8	B78207
Do.	do.	T	3- by 1-1/4-inch		1,960	2,040	2,310	9.2	4.3	B78208
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,080	2,330	9.4	3.6	B78209
Do.	do.	T	3/4-inch by 0		1,960	2,050	2,310	10.8	4.2	B78210
High View	do.	M		3	2,000	2,140	2,250	10.2	3.5	A24954 to A24956
Taylors										
Taylor	do.	M		3	2,060	2,190	2,360	7.3	3.3	A24938 to A24940
Union County										
Morganfield										
Waco	do.	T	6-inch lump		1,920	1,970	2,270	11.7	3.8	B30999
Do.	do.	T	6- by 3-inch		1,970	2,030	2,330	10.7	3.5	B31000
Do.	do.	T	3- by 1-1/4-inch		1,970	2,010	2,340	10.8	3.7	B31001
Do.	do.	T	1-1/4-inch by 0		1,900	1,950	2,170	14.3	4.0	B31002
Do.	do.	T	2-inch by 0		1,920	2,010	2,270	13.5	3.8	B31003
Waco No. 1	do.	T	6-inch lump		2,030	2,090	2,440	10.6	3.6	B79296
Do.	do.	T	6- by 1-1/4-inch		2,020	2,070	2,440	13.1	4.0	B79297
Do.	do.	T	1-1/4-inch by 0		1,980	2,020	2,320	15.1	4.2	B79298
Sturgis										
Callaway	do.	T	Run-of-mine		1,960	2,130	2,310	14.9	4.6	B31752
Do.	do.	T	2-inch lump		1,930	2,120	2,370	9.1	3.8	B31753
Do.	do.	T	1/2-inch by 0		1,960	2,160	2,310	11.1	4.0	B31754
Do.	do.	T	2- by 1-1/4-inch		1,920	2,060	2,330	10.7	4.0	B34230
Do.	do.	T	1-1/4- by 1/2-inch		1,930	2,040	2,320	12.0	4.4	B34231
Do.	do.	M		3	1,930	2,070	2,360	10.3	4.0	B34226 to B34228
Poplar Ridge	do.	T	Run-of-mine		2,010	2,100	2,400	12.6	4.3	B79623
Do.	do.	T	5- by 3-inch		1,910	2,020	2,360	12.1	4.1	E55130
Do.	do.	T	3-inch by 0		1,930	2,080	2,360	15.1	4.1	E55131
West Kentucky No. 2	do.	T	3-inch lump		1,980	2,050	2,360	9.9	3.5	B32173
Do.	do.	T	3- by 1-1/4-inch		1,980	2,040	2,240	9.9	3.4	B32174
Do.	do.	T	1-1/4-inch by 0		1,940	2,000	2,200	12.9	4.2	B32175
Do.	do.	T	1-1/4-inch lump		2,000	2,080	2,420	10.2	3.3	B32176
West Kentucky No. 8	do.	T	6-inch lump		2,000	2,110	2,570	8.7	3.3	B32033
Do.	do.	T	6- by 3-inch		1,960	2,090	2,470	9.8	3.3	B32034
Do.	do.	T	3-inch by 0		1,950	2,020	2,260	12.4	4.1	B32035
Do.	do.	T	3- by 2-inch		1,980	2,060	2,350	9.9	3.5	B32878
Do.	do.	T	2- by 1-1/4-inch		1,960	2,060	2,370	10.1	3.5	B32879
Do.	do.	T	1-1/4- by 7/16-inch		1,940	2,010	2,270	12.7	4.1	B32880
Do.	do.	T	7/16-inch by 0		2,000	2,040	2,200	15.5	4.5	B32881
Do.	do.	M		4	1,960	2,030	2,310	10.4	3.7	B34088 to B34091
West Kentucky No. 9	do.	M		6	1,980	2,050	2,240	9.4	3.3	96079 to 96084
Uniontown										
Highland Creek	No. 11	T	6-inch lump		1,980	2,020	2,320	9.5	4.0	B79878
Do.	do.	T	6- by 2-inch		2,000	2,050	2,310	9.6	3.8	B79879
Do.	do.	T	2-inch by 0		2,000	2,070	2,310	12.8	4.2	B79880
Uniontown	No. 9	T	Run-of-mine (W)		1,980	2,060	2,270	8.9	3.3	E36545
Webster County										
Clay										
Johnson	No. 6	T	2-inch lump		2,060	2,150	2,490	9.0	3.3	B34439
Do.	do.	T	2- by 1-inch		2,020	2,070	2,530	10.1	4.1	B34440
Do.	do.	T	1- by 3/4-inch		1,990	2,070	2,450	10.9	3.9	B34441

1/ M, mine sample; T, tipple sample 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
KENTUCKY—Western (Con.)										
Webster County (Con.)										
Clay										
Johnson	No. 6	T	3/4-inch by 0		1,950	2,010	2,380	15.1	5.0	B34442
Do.	do.	M		3	1,980	2,190	2,470	8.9	3.4	B34443 to B34445
West Kentucky No. 7	No. 14	M		3	2,120	2,320	2,470	7.2	1.7	A34971 to A34973
Providence										
Diamond	No. 9	T	6-inch lump		2,070	2,180	2,720	9.2	2.7	B31175
Do.	do.	T	6- by 3-inch		2,020	2,110	2,580	9.1	3.1	B31176
Do.	do.	T	3- by 2-inch		1,980	2,080	2,560	9.7	3.3	B31177
Do.	do.	T	2- by 1-1/4-inch		1,980	2,050	2,500	10.7	3.9	B31178
Do.	do.	T	1-1/4-inch by 0		1,950	2,000	2,300	13.7	4.3	B31179
Do.	do.	T	Run-of-mine		1,990	2,070	2,600	12.3	3.6	B31180
Diamond No. 1	do.	T	6-inch lump		2,020	2,130	2,440	10.2	2.8	A78631
Do.	do.	T	6- by 3-inch		1,940	2,010	2,430	9.8	3.5	A78632
Do.	do.	T	3- by 2-inch		1,950	2,040	2,340	9.4	3.3	A78633
Do.	do.	T	2- by 1-1/4-inch		1,920	2,000	2,310	12.0	3.9	A78634
Do.	do.	T	1-1/4-inch by 0		1,930	1,990	2,220	14.2	4.2	A78635
Diamond No. 2	do.	T	Run-of-mine		1,950	2,010	2,440	11.7	3.9	A78693
Duvin	do.	M		3	1,990	2,050	2,220	9.5	3.7	A55516
Do.	do.	T	6-inch lump		1,920	2,030	2,280	10.1	3.4	D18072
Do.	do.	T	6- by 3-inch		1,930	2,020	2,290	9.9	3.9	D18073
Do.	do.	T	3- by 1-1/4-inch		1,900	1,940	2,280	10.9	4.0	D18074
Do.	do.	T	1-1/4-inch by 0		1,920	1,970	2,130	14.5	4.7	D18075
Hart & Hart No. 1	do.	T	6-inch lump		1,900	2,000	2,260	9.3	4.5	D12805
Do.	do.	T	6- by 2-inch		1,900	2,000	2,260	10.9	4.7	D12806
Do.	do.	T	2- by 3/8-inch		1,970	2,130	2,280	15.7	4.7	D12807
Do.	do.	T	3/8-inch by 0		1,970	2,130	2,280	20.3	5.2	D12808
Hart & Hart Precision Washed	No. 11	T	Run-of-mine (W)		2,050	2,180	2,520	7.7	3.0	D64119
Do.	do.	T	6- by 3-inch (W)		2,050	2,180	2,520	7.1	2.9	D64120
Do.	do.	T	6- by 2-inch (W)		2,080	2,180	2,520	7.9	3.1	D64121
Do.	do.	T	3- by 1-1/2-inch (W)		2,030	2,150	2,520	7.4	2.9	D64122
Do.	do.	T	1-1/2- by 1/4-inch (W)		2,050	2,180	2,520	7.3	3.0	D64123
Do.	do.	T	1/4-inch by 0 (W)		2,030	2,180	2,520	6.8	2.7	D64124
Do.	do.	T	2-inch by 28-mesh (W)		2,030	2,180	2,520	7.3	2.9	D64125
Do.	do.	T	1-1/2-inch by 28-mesh (W)		2,030	2,180	2,520	6.7	2.8	D64126
Do.	No. 14	T	7- by 3-inch (W)		1,960	2,170	2,440	7.4	2.6	E37805
Do.	do.	T	3- by 1-1/2-inch (W)		2,000	2,150	2,450	7.0	2.6	E37806
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,900	2,170	2,420	7.0	2.6	E37807
Do.	do.	T	7- by 1-1/2-inch (W)		1,940	2,030	2,390	6.9	2.7	E37808
Do.	do.	T	1-1/2- by 3/8-inch (W)		1,940	2,030	2,390	7.5	2.9	E37809
Do.	do.	T	3/8-inch by 28-mesh (W)		1,920	2,130	2,450	8.1	2.9	E37810
Providence No. 3	No. 9	T	3-inch lump		1,980	2,070	2,600	10.8	3.4	B31096
Do.	do.	T	3- by 2-inch		1,980	2,040	2,500	9.9	3.6	B31097
Do.	do.	T	2-inch by 0		1,980	2,020	2,380	12.9	4.1	B31098
Do.	do.	T	3- by 1-1/4-inch		1,970	2,030	2,410	9.9	3.6	B31099
Do.	do.	T	1-1/4-inch by 0		1,970	2,000	2,310	13.0	4.0	B31100

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Do.	do.	M		5	1,960	2,040	2,440	10.4	3.5	B34220 to B34224
Ruckman	do.	T	2- by 1-1/2-inch		1,920	1,970	2,140	12.7	4.5	B32690
Do.	do.	T	1-1/2-inch by 0		1,910	1,950	2,190	15.1	4.0	B32691
Tulno	do.	T	6-inch lump		1,970	2,040	2,290	9.5	3.2	D41835
Do.	do.	T	6- by 1-1/4-inch		1,970	2,050	2,310	9.4	3.6	D41836
Do.	do.	T	1-1/4-inch by 0		1,940	2,000	2,180	14.7	4.0	D41837
Sullivan										
McGraw	do.	T	1-3/4-inch lump		1,960	2,070	2,350	10.1	4.1	B33718
Do.	do.	T	1-3/4- by 1-inch		1,970	2,070	2,350	11.4	4.3	B33719
Do.	do.	T	1- by 5/8-inch		1,980	2,070	2,330	13.6	4.9	B33720
Do.	do.	T	5/8-inch by 0		1,960	2,050	2,320	17.0	5.5	B33721
Wheatcroft										
West Kentucky No. 10	do.	T	6-inch lump		1,930	2,010	2,280	12.9	5.2	B31680
Do.	do.	T	6- by 3-inch		1,930	2,050	2,370	9.5	3.5	B31681
Do.	do.	T	3- by 2-inch		1,940	2,010	2,310	11.8	4.7	B31682
Do.	do.	T	2- by 1-1/4-inch		1,990	2,070	2,580	8.9	3.1	B31683
Do.	do.	T	1-1/4-inch by 0		1,940	2,010	2,310	13.7	5.0	B31684
Wheatcroft	do.	T	3-inch by 0		2,300	2,430	2,640	11.8	2.5	C43512

MARYLAND

Allegany County										
Barton										
Barton Georges Creek No. 2	Barton	M		1	2,540	2,640	2,730	10.5	1.9	C28011
Caledonia	Big Vein	T	Run-of-mine		2,710	2,770	2,850	9.0	.8	A51506
Do.	do.	T	2-inch lump		2,790	2,820	2,940	8.9	.7	A51507
Do.	do.	T	2-inch by 0		2,800	2,860	2,930	11.2	.8	A51508
Clark	Barton	M		1	2,470	2,600	2,730	11.7	1.4	C27780
Hampshire	Bakerstown	T	6-inch lump		2,520	2,580	2,750	12.1	2.0	B5585
Do.	do.	T	6- by 2-inch		2,580	2,640	2,810	13.7	2.1	B5586
Do.	do.	T	2- by 3/4-inch		2,600	2,660	2,810	17.9	2.3	B5587
Do.	do.	T	3/4-inch by 0		2,410	2,550	2,730	14.9	2.1	B5588
Hampshire-Freeport No. 1	Lower Bakerstown	M		1	2,200	2,360	2,570	25.6	4.6	C28010
Do.	do.	M		1	2,230	2,280	2,440	10.6	2.6	C26867
McDonald	Bakerstown	M		3	2,250	2,370	2,480	11.3	2.2	A40918, A40920 and A40921
Do.	do.	T	Run-of-mine		2,190	2,370	2,530	10.8	2.2	A55662
Pekin	Big Vein	T	do.		2,800	2,870	2,930+	8.7	.9	A81458
Potomac	do.	T	do.		2,900	2,950	2,980+	8.2	.9	A81344
Swanton	Pittsburgh	T	do.		2,860	2,910+	-	11.0	1.0	C95547
Barrelville										
Parker	Lower Freeport	M		2	2,410	2,510	2,690	4.5	1.0	A81637 and A81638
Do.	do.	T	Run-of-mine		2,190	2,360	2,590	5.5	1.4	B54944
Borden Shaft										
Borden Shaft No. 12	Big Seam	T	do.		-	2,740	-	10.1	1.0	A20787
Eckhart										
Consolidated No. 4	Pittsburgh	T	do.		2,910+	-	-	11.3	.9	C95371
Do.	do.	T	do.		2,910+	-	-	14.1	1.2	C95373
Consolidated No. 10	-	T	3/4-inch by 0		2,640	2,800	2,910	5.9	1.0	B5548
Do.	Sewickley	T	Run-of-mine		2,780	2,910	2,910+	11.3	1.2	C95375
Vincent Engle & Sons	-	M		1	2,190	2,300	2,430	14.1	3.1	A69577
Sullivan No. 3	Upper Kittanning	T	Run-of-mine		2,330	2,510	2,560	15.2	3.0	A31630
Frostburg										
Consolidation No. 9	Tyson	T	do.		2,730	2,750	2,860	8.3	1.1	A61723
Georges Creek No. 1	do.	T	do.		2,730	2,890	2,910+	9.6	1.1	B14159
Gunstan No. 1	Upper Kittanning	T	do.		2,140	2,480	2,650	16.1	3.5	B54943
McNitt No. 2	Tyson	T	do.		2,740	2,760	2,800	8.0	1.1	A17077
Robison	Bakerstown	M		3	2,050	2,190	2,480	12.0	2.8	C28263 to C28265
Stanton No. 1	-	M		2	2,370	2,540	2,670	10.3	2.0	A47932 and A47933
Union No. 1	Tyson	T	Run-of-mine		2,700	2,730	2,820	9.1	1.3	A55800

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MARYLAND (Con.)										
Allegany County (Con.)										
Frostburg										
Union No. 4	Tyson	T	Run-of-mine		2,740	2,760	2,880	8.2	1.0	A81364
Hoffman										
Consolidation No. 3	Big Vein	T	do.		2,690	2,800	-	9.2	.9	A20734
Lonaconing										
Castle	do.	T	do.		2,880	2,920	2,930+	7.8	.9	A81396
Georges Creek No. 3	Waynesburg	T	do.		2,290	2,460	2,640	9.6	1.9	B14160
Do.	do.	T	2-inch by 0		2,330	2,520	2,660	8.5	1.8	B14161
Do.	do.	T	1-1/2-inch by 0		2,070	2,400	2,490	8.7	2.1	B14162
Do.	do.	T	1-inch by 0		2,080	2,310	2,460	8.1	1.9	B14163
Georges Creek No. 4	Tyson	T	do.		2,740	2,830	2,900	6.1	1.1	A71736
Do.	do.	T	Run-of-mine		2,220	2,430	2,590	9.8	1.8	B14164
Do.	do.	T	2-inch by 0		2,040	2,400	2,490	8.4	1.8	B14165
Do.	do.	T	1-inch by 0		2,050	2,400	2,490	7.8	1.8	B14166
Kingsland	Big Vein	T	Run-of-mine		2,780	2,820	2,890	8.9	.8	A48725
Little Rosebud	Little Pittsburgh	T	do.		2,670	2,850	2,910+	16.8	1.7	B63431
Sonny	Pittsburgh	M		4	2,850 (1)	2,960+(3) 2,900 (1)	-	6.3	.8	A6677 to A6680
Do.	do.	T	Run-of-mine		2,840	2,890	2,940	8.1	.9	A81489
Do.	do.	T	2-inch lump		2,910	2,940	2,950+	7.9	.9	A81490
Do.	do.	T	2- by 1-inch		2,910	2,940+	-	12.6	.8	A81491
Tyson No. 4	Tyson	T	Run-of-mine		2,150	2,420	2,610	9.7	2.0	A81571
Waynesburg No. 3	Waynesburg	T	do.		2,490	2,580	2,730	9.6	1.8	A81570
Lord										
Consolidation No. 17	Tyson	T	do.		2,640	2,720	2,790	7.2	1.2	A97138
Midlothian										
Bowery Furnace	do.	T	do.		2,700	2,840	2,920+	8.7	1.2	B5522
McNitt	Pittsburgh	T	do.		2,910+	-	-	11.1	1.0	C95549
McNitt No. 2	Tyson	M		3	2,820	2,890	-	8.5	1.1	A17078 to A17080
Do.	do.	T	Run-of-mine		2,560	2,620	2,680	7.1	1.0	A20728
Midlothian No. 2	do.	T	do.		2,580	2,720	2,760	9.9	1.4	A71628
Mt. Savage										
Blackberry	Pittsburgh	M		1	2,160	2,460	2,650	12.6	2.5	B5545
Liberty	Upper Bakerstown	T	Run-of-mine		2,260	2,390	2,540	13.5	1.9	A31176
Do.	do.	M		2	2,650	2,770	2,830+(1) 2,850 (1)	10.3	.7	A44874 and A44875
Liberty No. 3	do.	T	Run-of-mine		2,380	2,440	2,750	10.2	.6	A81545
Little Pittsburgh	Little Pittsburgh	T	do.		2,080	2,260	2,470	16.3	4.1	B63432
Maryland Union No. 1	Upper Bakerstown	T	do.		2,420	2,570	2,800	9.2	1.3	B63136
McKenzie	-	M		2	2,100	2,350	2,530	12.3	2.7	A39738 and A39739
Newtown	Brush Creek	T	Run-of-mine		2,080	2,310	2,430	15.1	2.7	A32449
Sunnyside	Upper Kittanning	T	do.		2,660	2,720	2,750	10.5	1.5	A81546
Do.	do.	T	5- by 3-inch		2,360	2,680	2,770	9.1	1.6	A31431
Do.	do.	T	3- by 1-1/2-inch		2,550	2,680	2,770	12.2	1.6	A31470
Do.	do.	T	1-1/2- by 1/2-inch		2,720	2,820	2,900	17.9	1.3	A31471
Do.	do.	T	3/8-inch lump		2,680	2,800	2,890	13.4	1.3	A69417
Do.	do.	T	3/8-inch by 0		2,820	2,880	2,900+	14.0	1.0	A69416

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Union No. 4	-	T	Run-of-mine		2,310	2,440	2,640	12.3	2.2	A31390
Ocean										
Consolidation No. 1	Big Vein	T	-		-	2,740	-	7.6	.9	A20840
Westernport										
Burtner No. 6	Bakerstown	T	5- by 2-inch		2,450	2,650	2,750	18.0	2.5	A32280
Do.	do.	T	2- by 5/8-inch		2,500	2,620	2,760	19.2	2.3	A32115
Do.	do.	T	5/8-inch by 0		2,440	2,530	2,650	13.9	2.2	A32114
Donald	do.	T	4-inch lump		2,300	2,380	2,530	10.9	2.4	A31679
Do.	do.	T	4- by 3-inch		2,300	2,400	2,530	13.1	2.7	A31678
Do.	do.	T	2- by 3/4-inch		2,330	2,500	2,630	16.5	2.6	A32330
Do.	do.	T	3/4-inch by 0		2,410	2,520	2,630	19.8	2.9	A32331
Roberts Coal Company	do.	M		1	2,510	2,620	2,710	9.9	2.0	A40917
Washington No. 1	Lower Kittanning	T	Run-of-mine		2,140	2,280	2,390	17.4	2.9	A32062
Washington No. 5	Bakerstown	T	4-inch lump		2,680	2,760	2,870	10.8	1.3	A31938
Do.	do.	T	4- by 1-inch		2,770	2,870	2,890+	22.0	1.5	A31797
Do.	do.	T	1-inch by 0		2,640	2,770	2,890	14.9	1.5	A31796
Zihlman										
Annan & Jefferies	Tyson	T	Run-of-mine		2,650	2,800	2,860	7.4	1.2	A31209
Do.	Big Vein	T	do.		2,720	2,810	2,900	11.7	1.5	A31210
Union No. 1	-	T	do.		2,570	2,720	2,860	7.9	.8	E12379
Garrett County										
Bayard (West Virginia)										
Houck	Kittanning	M		2	2,340	2,450	2,600	14.6	3.2	C29349 and C29350
Nethkin	Lower Freeport	T	Run-of-mine		2,740	2,820	2,870	13.1	.8	A32263
Bittinger										
Beitzel	Bakerstown	T	do.		2,180	2,380	2,620	7.4	1.8	B63039
Bloomington										
Ross No. 1	do.	T	do.		2,500	2,680	2,720	15.8	1.9	A31951
Deer Park										
Daugherty No. 3	Kittanning	T	do.		2,000	2,170	2,370	18.3	3.5	E8872
Magic No. 2	Upper Freeport	T	do.		2,590	2,720	2,840	7.5	.5	E18232
Perry Paugh	Bakerstown	T	do.		2,760	2,870	2,910+	8.9	.6	B63268
Upperman	-	T	do.		2,210	2,480	2,700	12.7	2.5	B63269
Friendsville										
Prospect	-	M		1	2,030	2,110	2,300	14.2	3.5	B45386
Do.	-	M		1	2,060	2,480	2,610	10.9	3.2	B44877
McCullough	C Prime	M		2	2,040	2,250	2,560	13.1	4.2	A55773 and A55774
Do.	do.	T	Run-of-mine		2,040	2,220	2,500	13.0	4.0	A55775
McCullough No. 1	do.	T	do.		2,160	2,400	2,610	11.9	3.5	B63137
Outcrop	-	M		1	2,320	2,530	2,810	8.1	1.2	B45387
Grantsville										
Beachy	C Prime	M		2	2,340	2,480	2,640	10.0	1.5	A55697 and A55698
Do.	Upper Freeport	T	Run-of-mine		2,680	2,730	2,860	11.2	1.4	B63388
Bowman	do.	T	do.		2,870	2,910+	-	9.7	.8	B63266
Cramblett	Pittsburgh	T	do.		2,810	2,910	2,910+	7.3	.8	E11977
Cramblett No. 3	Lower Freeport	T	do.		2,520	2,600	2,780	14.0	1.8	D88272
Jenkins	Upper Kittanning	T	do.		2,780	2,850	2,910+	14.5	1.6	C28550
Do.	do.	M		4	2,910+(1) 2,820 (3)	2,880 (3)	2,910+(2) 2,910 (1)	13.9	1.1	C28551 to C28554
McKenzie	Upper Freeport	T	Run-of-mine		2,510	2,600	2,750	13.7	2.2	E11978
Meadow Mountain	-	T	do.		-	2,910+	-	19.8	1.0	B63390
Shade Run	Upper Freeport	T	do.		2,730	2,800	2,910+	10.7	1.3	B63389
Garrett										
Hiola No. 2	do.	T	do.		2,620	2,740	2,910+	11.6	1.1	B63265
Gorman										
Georgian	Lower Freeport	T	do.		2,620	2,820	2,920	12.0	.8	A32281
Gormania (West Virginia)										
Apple	Upper Freeport	T	do.		2,580	2,700	2,910	12.7	1.1	B73411
Table Rock	Lower Kittanning	T	do.		2,060	2,480	2,660	11.9	2.8	B63410

1 - M, mine sample; T, tipple sample. 2 - W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MARYLAND (Con.)										
Garrett County (Con.)										
Jennings										
Diamond Circle No. 1	Bakerstown	T	3-inch lump		2,000	2,140	2,430	12.1	3.3	B59498
Do.	do.	T	3- by 1-1/4-inch		2,080	2,190	2,470	13.5	3.1	B59499
Do.	do.	T	1-1/4-inch by 0		2,000	2,080	2,350	14.3	3.5	B59500
Jennings No. 1	do.	T	4-inch lump		1,920	2,070	2,310	12.6	3.2	C99417
Do.	do.	T	4- by 1-1/4-inch		1,900	2,030	2,280	12.7	3.0	C99418
Do.	do.	T	1-1/4-inch by 0		1,830	1,970	2,280	14.2	3.4	C99419
Morgart No. 1	Morgart	M		3	2,030	2,210	2,390	10.8	2.6	A54532 to A54534
Morgart No. 3	Upper Freeport	T	Run-of-mine		2,260	2,640	2,720	17.5	3.1	B63040
Louis A. Morgart	-	M		1	2,270	2,580	2,680	10.5	2.1	C23062
Kempton (West Virginia)										
Davis No. 42	Kittanning	T	Run-of-mine		2,760	2,810	2,910+	8.1	1.0	B5686
Do.	do.	T	3/4-inch by 0		-	2,910+	-	8.9	.8	B5687
Do.	Lower Kittanning	T	2-inch lump		-	2,880+	-	7.4	.7	A89928
Do.	do.	T	2-inch by 0		-	2,880+	-	8.6	.8	A89929
Do.	Upper Kittanning	T	Run-of-mine		2,190	2,480	2,630	9.5	1.8	A51891
Kempton No. 42	Upper Freeport	T	do.		2,820	2,870	2,910+	8.3	1.0	B58212
Do.	do.	T	2-inch by 0		2,770	2,840	2,910+	8.5	1.0	B58213
Kitzmiller										
Earl No. 1	Clarion	T	Run-of-mine		2,030	2,290	2,540	13.4	3.2	B55019
Freeport	Freeport	M		3	2,220	2,340	2,470	9.4	1.4	A44866 to A44868
Hamill	Six-Foot	M		3	2,120	2,440	2,530	11.3	2.5	A44870 to A44872
Do.	Freeport	T	Run-of-mine		2,520	2,600	2,710	16.0	2.5	C95811
Mountain Lake Park										
Tray No. 12	Upper Freeport	T	do.		2,840	2,890	2,910+	9.6	.5	C67608
Oakland										
Backbone Mountain	Kittanning	M		1	2,520	2,620	2,730	10.6	1.9	C29352
Selbysport										
Ernest Shelby	-	M		1	2,430	2,580	2,730	14.3	1.9	B44878
James Vitez	-	M		1	2,170	2,430	2,640	12.2	2.5	B45385
Shallmar										
Wolf Den	Lower Kittanning	T	Run-of-mine		2,120	2,360	2,390	15.8	4.0	A32155
Do.	do.	T	7/8-inch by 0		2,170	2,370	2,510	16.0	3.4	A32156
Swanton										
Harvey	Lower Bakerstown	M		1	2,090	2,270	2,470	11.9	3.7	C26997
Roth	Upper Freeport	T	Run-of-mine		2,130	2,310	2,510	8.2	2.1	B59546
Do.	do.	T	1-1/4-inch by 0		2,070	2,310	2,470	12.3	2.7	B59547
Vindex										
Clarion	Clarion	T	Run-of-mine		2,000	2,240	2,360	13.5	3.4	A32245
Earl No. 2	Upper Freeport	M		1	2,150	2,250	2,540	18.0	3.9	C27024
Hamill No. 2	Lower Kittanning	T	Run-of-mine		2,360	2,430	2,570	11.5	2.1	A32244
Manor No. 1	do.	M		3	2,340	2,530	2,630	11.1	2.2	A45499 to A45501
Do.	do.	T	Run-of-mine		2,120	2,330	2,460	12.1	3.0	A89821
Do.	do.	T	2-inch lump		2,150	2,330	2,500	10.2	2.7	A89822
Do.	do.	T	2- by 1-inch		2,260	2,460	2,540	12.0	2.6	A89823
Do.	do.	T	1-1/4-inch by 0		2,420	2,490	2,570	11.1	2.3	A89824

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Westernport										
Feller No. 2	Upper Freeport	T	Run-of-mine		2,010	2,170	2,360	9.9	2.0	D88941
Grove	Lower Freeport	T	do.		1,970	2,060	2,370	12.2	3.7	B63267
Wilson (West Virginia)										
Arnold	Upper Freeport	M		1	2,380	2,590	2,720	7.4	1.3	A60320
MICHIGAN										
Bay County										
Bay City										
Robert Gage No. 7	Verne	T	1-inch lump		2,090	2,180	2,290	7.3	1.4	A9640
Do.	do.	T	1-inch by 0 (W)		2,230	2,260	2,390	7.5	1.1	A9641
Do.	do.	M		3	2,200	2,270	2,330	5.1	1.4	A9642 to A9644
Monitor	-	T	5-inch lump		2,280	2,330	2,600	8.0	2.0	B57496
Do.	-	T	5- by 2-inch		2,190	2,280	2,590	9.3	2.2	B57497
Do.	-	T	2-inch by 0		2,250	2,310	2,470	13.3	2.0	B57498
Do.	-	T	1/4-inch by 0		2,090	2,130	2,200	18.1	2.1	B57499
New Michigan	-	T	4-inch lump		2,200	2,500	2,650	6.6	1.1	B57500
Do.	-	T	4- by 1-3/4-inch		2,220	2,490	2,650	8.6	1.0	B57501
Do.	-	T	1-3/4-inch by 0		2,180	2,320	2,470	12.0	1.1	B57502
Do.	-	T	1/4-inch by 0		2,020	2,130	2,320	15.8	1.5	B57503
Wolverine No. 2	Verne	T	3-inch lump		1,980	2,170	2,310	4.6	2.8	A9554
Do.	do.	T	3- by 1-inch (W)		1,940	2,030	2,350	5.4	2.6	A9556
Do.	do.	T	3-inch by 0 (W)		2,060	2,190	-	5.8	2.0	A9555
Do.	do.	M		3	2,010	2,100	2,310	6.4	3.3	A9557 to A9559
Munger										
What Cheer	Saginaw	M		2	2,000	2,080	2,180	6.8	2.4	A10004 and A10005
Calhoun County										
Albion										
Albion	-	M		2	2,010	2,150	2,460	9.3	7.0	A10188 and A10189
Eaton County										
Grand Ledge										
Goodrich	-	M		2	2,110	2,220	2,330	10.9	5.7	B57659 and B57660
Russell	-	M		1	2,100	2,150	2,280	12.8	1.6	A10187
Huron County										
Sebewaing										
Sebewaing	-	T	2-inch lump		2,390	2,440	2,470	11.6	8.6	B57630
Do.	-	T	2-inch by 0		2,100	2,130	2,350	17.1	9.3	B57631
Midland County										
Midland										
Midland	Midland	M		3	1,960	2,000	2,260	8.1	2.8	A9561 to A9563
Randall	-	M		1	2,150	2,210	2,300	8.3	1.1	A44878
Saginaw County										
Saginaw										
Janes Street	Uncle Henry	T	3-inch lump		1,940	2,040	2,250	6.0	2.5	B57067
Do.	do.	T	3- by 1-1/4-inch		2,000	2,070	2,260	8.9	2.2	B57068
Do.	do.	T	1-1/4- by 1/4-inch		2,060	2,170	2,380	12.6	2.5	B57069
Do.	do.	T	1/4-inch by 0		2,000	2,170	2,350	15.3	2.9	B57070
Shiawassee	Saginaw	T	3-inch lump		2,180	2,240	2,390	4.7	1.3	A9547
Do.	do.	T	3- by 1-inch (W)		1,860	2,010	2,130	3.5	1.1	A9548
Do.	do.	T	3-inch by 0 (W)		2,020	2,160	2,310	4.5	1.1	A9549
Do.	do.	M		3	2,120	2,230	2,340	7.0	1.4	A9550 to A9552
Uncle Henry	do.	T	3-inch lump		2,150	2,200	2,450	4.4	1.3	A9101

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MICHIGAN (Con.)										
Saginaw County (Con.)										
Saginaw										
Uncle Henry	Saginaw	M		4	2,060	2,180	2,260	6.2	1.4	A9102 to A9105
Do.	do.	T	3- by 1-inch		2,260	2,340	2,380	5.3	1.4	A9565
Saint Charles										
Aurora	-	T	4-inch lump		2,400	2,450	2,750	6.0	.9	B57246
Do.	-	T	4- by 2-inch		2,310	2,360	2,660	8.6	1.3	B57247
Do.	-	T	2-inch by 0		2,230	2,260	2,490	13.1	1.2	B57248
Big Chief No. 8	Verne	T	Run-of-mine		2,200	2,260	2,430	12.4	1.2	A9646
Do.	do.	M		3	2,120	2,160	2,220	7.7	1.3	A9647 to A9649
Do.	do.	T	1-inch by 0 (W)		2,230	2,260	2,310	6.8	.9	A9897
Garfield	-	T	5-inch lump		2,090	2,180	2,430	5.3	1.0	B57288
Do.	-	T	5- by 2-inch		2,140	2,190	2,430	8.1	1.4	B57289
Do.	-	T	2-inch by 0		2,110	2,180	2,290	12.0	1.4	B57290
Shiawassee County										
Lennon										
Tri-Party	-	T	5-inch lump		2,050	2,140	2,400	5.7	1.8	B57110
Do.	-	T	5- by 2-inch		2,020	2,060	2,370	8.5	1.8	B57111
Do.	-	T	2- by 1-inch		2,190	2,230	2,460	12.6	1.6	B57112
Do.	-	T	1- by 1/4-inch		2,210	2,280	2,490	15.5	1.9	B57113
Do.	-	T	1/2-inch by 0		2,240	2,310	2,500	17.5	2.1	B57114
Do.	-	T	1/4-inch by 0		2,190	2,230	2,500	21.4	2.6	B57115
New Lothrop										
Crapo	-	T	4-inch lump		2,050	2,220	2,420	4.5	1.3	B57108
Do.	-	T	4-inch by 0		2,050	2,140	2,290	19.4	2.2	B57109
Do.	Upper Verne	T	4- by 2-inch		2,210	2,260	2,490	8.6	1.6	B57242
Do.	do.	T	2- by 1-1/4-inch		2,180	2,240	2,520	9.6	1.5	B57243
Do.	do.	T	1-1/4- by 1/4-inch		2,260	2,300	2,520	12.6	1.5	B57244
Do.	do.	T	2-inch by 0		2,180	2,260	2,490	13.6	1.9	B57245
Owosso										
Cooper	-	M		2	2,030	2,090	2,150	13.8	3.4	A10037 and A10038
Tuscola County										
Unionville										
Big Chief No. 10	-	T	5-inch lump		2,010	2,090	2,350	4.9	2.7	B57627
Do.	-	T	5- by 2-inch		2,030	2,090	2,380	7.4	3.5	B57628
Do.	-	T	2-inch by 0 (W)		2,020	2,080	2,420	7.0	2.8	B57629
MISSOURI										
Adair County										
Novinger										
Blacksmith	Bevier	T	8-inch lump		1,990	2,010	2,030	14.9	6.0	B93991
Do.	do.	T	8- by 2-1/2-inch		1,950	1,980	2,000	15.4	5.9	B93992
Do.	do.	T	2-1/2- by 1-1/4-inch		1,970	1,990	2,210	18.3	5.3	B93993

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Do.	do.	T	1-1/4-inch by 0		2,020	2,070	2,240	20.2	4.6	B93994
Chariton River	do.	T	3-inch lump		2,140	2,210	2,310	16.0	3.9	B94139
Do.	do.	T	3- by 1-1/4-inch		1,950	2,040	2,090	20.1	3.9	B94140
Do.	do.	T	1-1/4-inch by 0		2,020	2,070	2,180	25.6	3.6	B94141
Corrigan No. 8	do.	T	8-inch lump		2,010	2,050	2,100	14.8	5.3	B93995
Do.	do.	T	8- by 3-inch		1,980	2,000	2,020	14.7	5.2	B93996
Do.	do.	T	3- by 1-1/4-inch		1,980	2,000	2,170	18.4	5.5	B93997
Do.	do.	T	1-1/4-inch by 0		2,070	2,110	2,350	20.9	4.4	B93998
Rose Hill	do.	T	3-inch lump		1,970	2,010	2,100	14.0	4.5	B94135
Do.	do.	T	3- by 1-1/4-inch		2,090	2,110	2,350	18.4	4.2	B94136
Do.	do.	T	1-1/4- by 1/4-inch		2,050	2,110	2,180	22.4	4.4	B94137
Do.	do.	T	1/4-inch by 0		2,070	2,130	2,210	30.4	4.1	B94138
Youngstown										
Baiotto	do.	T	6-inch lump		1,920	1,980	2,270	13.8	7.6	B53191
Do.	do.	T	6- by 1-inch		1,920	1,990	2,230	13.2	6.4	B53192
Do.	do.	T	3- by 1-1/2-inch		1,920	1,980	2,270	16.3	7.0	B53193
Do.	do.	T	1-inch by 0		2,010	2,060	2,270	25.6	6.2	B53194
Bates County										
Foster										
Walnut	Mulberry	M		2	1,960	2,040	2,140	14.1	2.5	A2815 and A2816
Hume										
N. & S.	do.	M		2	1,940	2,020	2,150	14.6	3.0	A1959 and A1960
Do.	do.	T	-		1,930	1,970	2,060	17.5	4.7	A1958
Tiger No. 1	Bevier	T	7- by 3-inch (W)		2,070	2,170	2,460	15.6	2.3	D62433
Do.	do.	T	3- by 1-1/4-inch (W)		2,080	2,180	2,420	14.3	2.6	D62434
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,100	2,310	13.1	2.6	D62435
Do.	do.	T	1- by 3/8-inch (W)		1,920	2,130	2,420	13.1	2.6	D62436
Worland										
Blue Jay	Mulberry	M		3	2,030	2,100	2,310	13.9	2.8	A1841 to A1843
Valentine	do.	T	-		1,990	2,110	2,300	17.0	3.4	A1837
Do.	do.	M		2	2,000	2,130	2,230	14.4	2.9	A1838 and A1839
Barton County										
Oskaloosa										
New Diamond	Weir-Pittsburg	T	3-inch lump		2,050	2,130	2,420	3.7	1.4	B92132
Do.	do.	T	3- by 1-1/4-inch		2,100	2,160	2,540	4.9	1.2	B92133
Do.	do.	T	1-1/4-inch by 0		2,100	2,210	2,560	5.7	1.3	B92134
Caldwell County										
Cameron (Clinton County)										
Cameron	Lexington	M		1	2,240	2,430	2,540	14.1	3.4	B35686
Calloway County										
Fulton										
Middle River	Bevier	T	1-1/4-inch lump		1,950	1,970	2,130	14.9	6.2	B93351
Do.	do.	T	1-1/4-inch by 0		2,020	2,090	2,240	17.8	5.0	B93352
Stephens										
Marriott-Reed	do.	T	10-inch lump		2,030	2,050	2,130	14.8	7.7	B93346
Do.	do.	T	10- by 3-inch		2,020	2,070	2,240	13.6	6.2	B93347
Do.	do.	T	3- by 2-inch		1,990	2,030	2,270	12.3	5.2	B93348
Do.	do.	T	2- by 1-1/4-inch (W)		1,980	2,030	2,330	8.8	4.3	B93349
Do.	do.	T	1-1/4-inch by 0		1,970	2,020	2,310	9.2	4.2	B93350
Clay County										
Mosby										
Boothe No. 1	Lexington	T	8-inch lump		2,040	2,090	2,150	16.0	4.7	B93153
Do.	do.	T	8- by 4-inch		2,040	2,070	2,140	15.7	4.7	B93154

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MISSOURI (Con.)										
Clay County (Con.)										
Mosby										
Boothe No. 1	Lexington	T	4- by 1-1/4-inch		2,000	2,040	2,140	16.3	4.4	B93155
Do.	do.	T	1-1/4- by 1/2-inch		2,100	2,140	2,210	16.5	4.2	B93156
Do.	do.	T	1/2-inch by 0		2,050	2,100	2,250	19.4	3.9	B93157
Klondike	Limestone	T	4- by 1-3/4-inch		1,870	1,920	2,050	13.4	5.1	D30407
Do.	do.	T	1-3/4- by 1/4-inch		1,950	2,000	2,080	14.1	4.5	D30408
Do.	do.	T	1/4-inch by 0		1,900	1,940	2,030	19.0	4.6	D30409
Daviess County										
Winston										
Winston	do.	T	Run-of-mine		1,990	2,010	2,020	12.6	5.5	B93158
Henry County										
Calhoun										
Central State	Tebo	T	3-inch lump		1,950	2,000	2,180	12.8	4.9	B60970
Do.	do.	T	3- by 1-1/4-inch		1,940	2,000	2,220	14.5	5.5	B60971
Do.	do.	T	1-1/4- by 1/4-inch		1,970	2,040	2,320	18.8	5.1	B60972
Do.	do.	T	1/4-inch by 0		1,940	2,020	2,220	22.2	4.8	B60973
Star	do.	T	3-inch lump		1,920	1,950	2,100	12.9	5.2	B61094
Do.	do.	T	3- by 1-1/4-inch		1,970	2,020	2,270	15.2	4.7	B61095
Do.	do.	T	1-1/4- by 1/4-inch		2,020	2,150	2,520	21.6	4.5	B61096
Do.	do.	T	1/4-inch by 0		2,070	2,230	2,540	29.9	4.7	B61097
Clinton										
Crowe No. 1	do.	T	6- by 3-inch (W)		1,950	2,020	2,300	12.9	4.1	B61156
Do.	do.	T	3- by 1-1/4-inch (W)		1,900	2,010	2,490	10.9	3.9	B61157
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,050	2,530	10.6	3.9	B61158
Reliance	do.	T	6- by 3-inch (W)		1,910	1,980	2,210	14.0	4.9	E27646
Do.	do.	T	3- by 1-1/4-inch (W)		1,950	2,000	2,150	12.3	4.6	E27647
Do.	do.	T	1- by 5/16-inch (W)		1,960	2,000	2,130	12.4	5.3	E27648
Do.	do.	T	1-1/4-inch by 0 (W)		1,960	2,000	2,130	12.4	5.4	E27649
Crody										
Crowe-Brady	-	T	5- by 1-1/2-inch		2,030	2,100	2,250	8.6	4.6	B52642
Do.	-	T	1-1/2- by 3/4-inch		1,890	1,970	2,040	8.7	5.2	B52643
Do.	-	T	3/4-inch by 0		1,920	1,960	2,040	12.7	5.6	B52644
Deepwater										
Ruddell No. 2	Jordan	T	1-1/4-inch lump		2,230	2,500	2,660	6.8	1.5	B61027
Harvey										
Harvey	Tebo	T	3-inch lump		1,930	2,010	2,280	16.4	5.0	B52831
Do.	do.	T	3- by 1-1/4-inch		1,970	2,020	2,330	17.7	5.6	B52832
Do.	do.	T	1-1/4-inch by 0		1,970	2,020	2,330	19.7	5.4	B52833
Do.	do.	T	1-1/4- by 3/16-inch (W)		1,970	2,020	2,330	13.1	4.7	B52834
Leeton (Johnson County)										
Newcastle	do.	T	7- by 3-inch (W)		1,980	2,050	2,080	13.0	4.9	D62849
Do.	do.	T	3- by 1-1/4-inch (W)		1,970	2,040	2,080	11.1	4.3	D62850
Do.	do.	T	1-1/4-inch by 0 (W)		1,950	2,010	2,230	11.3	4.7	D62851

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Do.	do.	T	1-1/4- by 5/16-inch (W)		1,940	2,030	2,260	10.4	4.5	D62852
Windsor										
Hudson & Frazer No. 1	do.	T	3-inch lump		1,950	2,020	2,210	11.0	4.9	B60880
Do.	do.	T	3- by 7/8-inch		1,960	2,090	2,370	15.8	4.6	B60881
Do.	do.	T	7/8- by 1/4-inch		1,980	2,150	2,490	21.2	4.7	B60882
Windsor	Bevier	T	4-inch lump		2,020	2,100	2,330	5.3	3.7	B61304
Do.	do.	T	4- by 1-1/4-inch (W)		2,000	2,100	2,330	6.0	3.3	B61305
Do.	do.	T	1-1/4-inch by 1-mm. (W)		2,000	2,090	2,390	6.8	3.2	B61306
Johnson County										
Windsor (Henry County)										
Spangler & Parks	do.	T	3-inch lump		2,140	2,170	2,330	7.1	4.8	B92315
Do.	do.	T	3- by 1-1/4-inch		2,000	2,030	2,230	10.2	5.8	B92316
Do.	do.	T	1-1/4- by 1/4-inch		1,980	2,020	2,100	15.2	6.1	B92317
Do.	do.	T	1/4-inch by 0		1,970	2,000	2,020	21.6	5.9	B92318
Lafayette County										
Higginsville										
Farmers No. 10	Lexington	T	Run-of-mine		2,000	2,100	2,350	13.9	4.0	B92814
Lexington										
Woodrow Wilson	do.	T	do.		1,980	2,010	2,180	15.4	4.3	B92813
Linn County										
Brookfield										
Leo Schaefer	Tebo	T	1-inch lump		2,070	2,110	2,200	10.3	5.9	B93642
Do.	do.	T	1-inch by 0		1,990	2,010	2,170	21.8	6.4	B93643
Raymond Schaefer	do.	T	1-inch lump		2,030	2,110	2,350	10.2	6.3	B93640
Do.	do.	T	1-inch by 0		1,970	2,010	2,210	21.5	6.7	B93641
Bucklin										
Bucklin	do.	M		2	2,040	2,100	2,340	13.7	7.3	B53483 and B53485
Do.	do.	T	1-1/4-inch lump		2,040	2,090	2,250	11.9	3.6	B53481
Do.	do.	T	1-1/4- by 1/4-inch		1,890	1,950	2,180	16.1	7.1	B53482
Tiger Station (Bates County)										
Tiger	Mulberry	T	8-inch lump		2,040	2,080	2,450	15.4	3.4	B52482
Do.	do.	T	8- by 3-inch (W)		2,010	2,090	2,450	11.7	3.1	B52483
Do.	do.	T	3- by 1-1/4-inch (W)		2,010	2,090	2,450	11.3	2.9	B52484
Do.	do.	T	1-1/4-inch by 0		2,030	2,160	2,480	22.2	3.4	B52485
Do.	do.	T	1-1/4-inch by 0 (W)		1,990	2,080	2,490	10.6	2.6	B52486
Macon County										
Bevier										
Bevier	Bevier	T	6- by 3-inch (W)		1,990	2,010	2,270	9.3	4.6	B53195
Do.	do.	T	3- by 1-1/4-inch (W)		1,990	2,010	2,270	7.9	3.7	B53196
Do.	do.	T	1-1/4-inch by 0 (W)		1,990	2,020	2,270	8.3	3.6	B53197
Keota										
Keota	do.	T	3-inch lump		1,940	2,010	2,310	11.3	5.0	B53396
Do.	do.	T	3- by 1-1/4-inch		1,940	2,010	2,310	10.4	4.0	B53397
Do.	do.	T	1-1/4-inch by 0		1,930	2,020	2,310	14.9	4.4	B53398
Macon										
Macon County No. 68	do.	T	6-inch lump		1,920	2,010	2,280	12.4	5.3	B53399
Do.	do.	T	6- by 3-inch		1,920	2,010	2,280	11.5	5.1	B53400
Do.	do.	T	3- by 1-1/2-inch		1,920	2,170	2,320	15.7	4.8	B53401
Do.	do.	T	1-1/2- by 7/8-inch		1,920	2,170	2,370	19.1	4.8	B53402
Do.	do.	T	7/8- by 1/4-inch		1,970	2,130	2,370	20.3	5.2	B53403
Do.	do.	T	1-1/2-inch by 0		1,970	2,130	2,370	18.4	5.1	B53404

1 M, mine sample; T, tipple sample 2 W, washed.

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TABLE 3 Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	[illegible]	Size of coal[2]	[illegible]	Fusibility of Ash			Percent, dry basis		Laboratory No
					[illegible]	[illegible]	[illegible]	Ash	Sulfur	
1	2	3	4	5	6	7	8	9	10	11
MISSOURI (Con.)										
Morgan County										
Barnett										
Banner Coal Company	-	M		4	2,680 (3)	2,910+(1) 2,740 (3)	- 2,830 (3)	9.8	5.1	B17900 to B17903
Randolph County										
Huntsville										
Mark Twain	Bevier	T	6- by 3-inch (W)		1,990	2,100	2,180	11.4	5.9	D63723
Do.	do.	T	3- by 1-1/4-inch (W)		2,020	2,080	2,390	9.4	4.7	D63724
Do.	do.	T	1-1/4-inch by 0 (W)		2,000	2,050	2,420	9.3	4.5	D63725
Moberly										
Hill	do.	T	8-inch lump		1,900	1,940	2,070	13.3	5.4	B52992
Do.	do.	T	8- by 3-inch		1,960	1,990	2,200	13.6	5.5	B52993
Do.	do.	T	3- by 1-1/4-inch		1,940	2,020	2,260	13.3	4.6	B52994
Do.	do.	T	1-1/4- by 1/4-inch		1,940	2,030	2,310	14.6	4.1	B52995
Do.	do.	T	1-1/4-inch by 0		1,940	2,030	2,310	16.2	4.0	B52996
Ol' Elliott	do.	T	6- by 3-inch		1,930	1,970	2,130	11.3	4.8	D88716
Do.	do.	T	3- by 1-1/2-inch		1,940	1,990	2,130	12.2	5.3	D88717
Do.	do.	T	1-1/2-inch by 0 (W)		1,920	1,980	2,160	10.7	4.1	D88718
Ray County										
Elmira										
Elmira	Lexington	T	3-inch lump		2,050	2,100	2,150	13.5	4.1	B93159
Do.	do.	T	3- by 1-1/4-inch		2,020	2,080	2,290	14.1	3.9	B93160
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,040	2,110	2,270	13.2	3.7	B93161
Do.	do.	T	1/4-inch by 0 (W)		2,020	2,100	2,300	11.8	3.6	B93162
Rayville										
Rayville No. 1	do.	T	3-inch lump		1,990	2,020	2,210	13.4	5.9	B92891
Do.	do.	T	3- by 1-1/4-inch		2,030	2,060	2,310	14.6	5.2	B92892
Do.	do.	T	1-1/4- by 1/4-inch		2,040	2,080	2,270	18.5	5.6	B92893
Do.	do.	T	1/4-inch by 0		1,970	2,000	2,140	26.4	6.5	B92894
Saint Clair County										
Appleton City										
Pioneer	Tebo	T	6- by 3-inch (W)		2,040	2,090	2,110	13.7	3.5	D63142
Do.	do.	T	3- by 1-1/4-inch (W)		1,970	2,050	2,150	12.7	3.5	D63143
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,050	2,210	10.8	3.4	D63144
Do.	do.	T	3- by 2-inch (W)		2,000	2,060	2,230	12.2	3.8	D63145
Do.	do.	T	2- by 1-1/4-inch (W)		2,030	2,080	2,260	11.2	3.4	D63146
Do.	do.	T	1- by 3/16-inch (W)		1,950	2,050	2,390	10.6	3.5	D63147
Vernon County										
Arcadia (Kansas)										
Diamond	Crowsburg	T	3-inch lump		2,020	2,050	2,370	11.7	5.6	B92129
Do.	do.	T	3- by 1-1/4-inch		2,010	2,050	2,310	11.9	5.5	B92130
Do.	do.	T	1-1/4-inch by 0		2,050	2,210	2,390	20.4	5.2	B92131

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Bronaugh										
Cornell	Mulky	T	3-inch lump		2,010	2,040	2,140	9.6	3.7	B92126
Do.	do.	T	3- by 1-1/4-inch		1,970	2,020	2,200	9.5	4.2	B92127
Do.	do.	T	1-1/4-inch by 0		1,980	2,000	2,120	15.8	4.3	B92128
Ellis	-	T	Run-of-mine		1,920	1,970	2,010	17.7	4.2	D98123
Richhill										
Fisher	-	T	3- by 1-1/4-inch (W)		1,910	1,940	2,130	15.2	4.6	D98124
Do.	-	T	1-1/4-inch by 0		1,900	1,930	1,950	13.4	3.9	D98125
MONTANA										
Big Horn County										
Decker										
Spring Creek	-	T	1-1/2-inch lump		2,230	2,310	2,570	4.3	.3	D97833
Do.	-	T	1-1/2-inch by 0		2,090	2,120	2,150	5.3	.3	D97834
Tongue River	-	T	1-1/2-inch lump		2,250	2,420	2,540	4.5	.4	E37669
Do.	-	T	1-1/2-inch by 0		2,070	2,130	2,410	5.4	.5	E37670
Blaine County										
Chinook										
Milk River	Milk River	M		1	1,930	2,020	2,180	9.5	.6	A34014
Do.	-	T	3/4-inch lump		2,080	2,160	2,290	11.8	.6	B87931
Do.	-	T	3/4- by 1/4-inch		2,090	2,180	2,310	12.0	.6	B87932
Do.	-	T	1/4-inch by 0		2,210	2,310	2,470	14.1	.5	B87933
Raeder	-	M		1	2,340	2,510	2,630	13.1	.8	A3757
Harlem										
Charles O. Damon	-	M		1	1,850	1,990	2,090	14.7	.9	85249
Landusky (Phillips County)										
Ruby Gulch No. 2	-	M		1	2,240	2,390	2,410	21.0	.8	A4791
Maddux										
Bryan McSharry	Judith River	M		1	2,530	2,590	2,650	17.9	.9	87064
Zortman (Phillips County)										
Joe Shellenberger	do.	M		1	1,940	2,180	2,340	11.0	.9	87063
John McClellan	-	M		1	2,170	2,220	2,330	13.1	.8	86314
Ruby Gulch Mining Company	-	M		1	2,260	2,370	2,420	20.1	.9	82485
Carbon County										
Bear Creek										
Bear Creek	No. 5	T	2-inch lump		2,110	2,160	2,490	10.1	2.4	B82989
Do.	do.	T	2- by 1-1/4-inch		2,090	2,170	2,490	12.2	2.4	B82990
Do.	do.	T	1-1/4- by 1/4-inch		2,070	2,150	2,490	13.2	2.3	B82991
Do.	do.	T	1/4-inch by 0		2,070	2,140	2,470	17.1	2.5	B82992
Foster	No. 3	T	8-inch lump		2,010	2,040	2,070	9.2	2.1	D51760
Do.	do.	T	8- by 5-inch		2,020	2,050	2,080	9.6	1.9	D51761
Do.	do.	T	5- by 2-1/2-inch (W)		2,000	2,030	2,070	9.5	2.1	D51762
Do.	do.	T	2-1/2- by 1-3/4-inch (W)		2,020	2,070	2,120	10.8	2.2	D51763
Do.	do.	T	1-3/4- by 3/4-inch (W)		1,830	1,900	1,920	8.9	2.4	D51764
Do.	do.	T	3/4-inch by 0		2,020	2,050	2,080	14.5	2.7	D51765
Red Lodge										
New Brophy	No. 1	T	2-inch lump		1,930	1,980	2,140	6.5	1.7	B81493
Do.	do.	T	2- by 1-1/4-inch		2,010	2,050	2,290	12.6	3.1	B81494
Do.	do.	T	1-1/4-inch by 0		2,010	2,090	2,340	18.4	2.7	B81495
Northwestern Improvement Company No. 4	No. 5	M		1	2,090	2,160	2,360	14.8	1.8	A64310
Pilati	No. 4	M		1	2,100	2,120	2,270	6.0	1.8	B81393
Red Lodge No. 4	No. 5	M		1	2,050	2,110	2,280	11.9	1.1	A33900
Do.	No. 6	M		1	1,960	2,050	2,230	16.6	2.9	A33901
Smokeless & Sootless	No. 2	T	6-inch lump		1,980	2,020	2,220	7.0	1.0	B81195
Do.	do.	T	6- by 2-inch		1,960	2,010	2,210	7.5	1.0	B81196
Do.	do.	T	2- by 1-1/4-inch		2,070	2,180	2,540	14.6	1.4	B81197

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MONTANA (Con.)										
Carbon County (Con.)										
Red Lodge										
Smokeless & Sootless	No. 2	T	1-1/4- by 1/2-inch		2,130	2,190	2,580	13.6	1.4	B81198
Do.	do.	T	1/2-inch by 0		2,140	2,180	2,570	13.1	1.0	B81199
Do.	No. 4	T	12- by 4-inch		1,880	1,970	2,050	8.0	1.9	E55357
Do.	do.	T	4- by 1-1/4-inch (W)		1,880	1,990	2,050	7.0	2.1	E55358
Do.	do.	T	1-1/4- by 1/2-inch (W)		1,980	2,040	2,190	8.5	2.0	E55359
Do.	do.	T	1/2-inch by 0		2,000	2,060	2,360	15.9	2.0	E55360
Washoe										
Burns	No. 2	T	2-inch lump		2,030	2,120	2,370	7.9	2.5	B81200
Do.	do.	T	2- by 1-1/4-inch		1,990	2,050	2,380	10.9	2.8	B81201
Do.	do.	T	1-1/4- by 3/8-inch		2,050	2,100	2,530	13.5	2.7	B81202
Do.	do.	T	3/8-inch by 0		1,950	2,140	2,530	10.9	1.4	B81203
Smith	No. 3	M		1	2,230	2,290	2,630	14.3	.9	B42518
Do.	No. 2	T	12- by 3-inch		1,940	2,000	2,100	9.4	2.2	C45832
Do.	do.	T	3- by 2-inch (W)		1,930	2,000	2,140	8.8	2.4	C45833
Do.	do.	T	2- by 1/8-inch (W)		2,000	2,050	2,150	10.7	2.5	C45834
Do.	do.	T	1/8-inch by 0		2,000	2,050	2,220	17.7	2.3	C45835
Do.	No. 3	T	14- by 5-inch		1,970	2,010	2,120	9.9	1.4	E55465
Do.	do.	T	5- by 1-1/4-inch (W)		1,950	2,020	2,190	10.7	2.0	E55466
Do.	do.	T	1-1/4- by 1/2-inch (W)		1,930	2,050	2,180	12.7	2.4	E55467
Cascade County										
Belt										
East Belt	-	T	3-inch lump		2,910+	-	-	19.3	3.3	B87454
Do.	-	T	3- by 1-inch		2,890	2,910+	-	23.6	3.8	B87455
Do.	-	T	1-inch by 0		2,720	2,810	2,910+	22.3	4.2	B87456
Centerville										
ACM No. 4	-	T	3/4-inch lump		2,840	2,910+	-	20.5	3.4	B87377
Do.	-	T	3/4-inch by 0		2,910	2,910+	-	21.6	3.3	B87378
Latham	-	T	2-inch lump		2,910+	-	-	14.8	2.2	B87451
Do.	-	T	2- by 3/4-inch		2,910+	-	-	25.8	2.8	B87452
Do.	-	T	3/4-inch by 0		2,890	2,910+	-	21.6	2.7	B87453
Super	-	T	2-inch lump		2,840	2,910+	-	19.4	3.0	B87053
Do.	-	T	2- by 1-inch		2,810	2,910+	-	23.4	3.9	B87054
Do.	-	T	1-inch by 0		2,870	2,910+	-	24.6	3.1	B87055
Giffen										
Giffen No. 1	Sand Coulee	M		1	2,630	2,680	2,840	22.5	5.2	B42517
Great Falls										
Carlile	-	T	6-inch lump		2,140	2,190	2,550	14.4	5.8	B87047
Do.	-	T	6- by 2-1/2-inch		2,520	2,610	2,790	19.0	4.7	B87048
Do.	-	T	2-1/2- by 1-inch		2,540	2,680	2,850	23.9	4.7	B87049
Do.	-	T	1-inch by 0		2,710	2,840	2,910+	23.0	3.9	B87050
Deep Creek	-	M		1	2,470	2,500	2,600	12.7	4.3	A36515
Loveland	Belt Creek	M		1	2,700	2,750	2,910	19.1	4.3	C44029
Surmi	-	T	4- by 1-1/4-inch		2,910+	-	-	18.3	2.0	E28003
Do.	-	T	1-1/4-inch by 0		2,910+	-	-	19.3	2.0	E28004
Sandcoulee										
Francetich	-	T	6-inch lump		2,880	2,910+	-	21.7	3.7	B87203

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Do.	-	T	6- by 1-1/2-inch		2,630	2,700	2,890	22.3	4.7	B87204
Do.	-	T	1-1/2- by 1-inch		2,160	2,300	2,570	28.5	10.3	B87205
Do.	-	T	1-1/2-inch by 0		2,470	2,540	2,650	21.9	6.8	B87206
Stockett										
Yatsko	-	T	4-inch lump		2,910+	-	-	17.3	1.9	B87448
Do.	-	T	4- by 1-inch		2,910+	-	-	22.5	1.8	B87449
Do.	-	T	1-inch by 0		2,910+	-	-	21.7	2.4	B87450
Tracy										
Erbetta	-	T	2-inch lump		2,690	2,780	2,910+	16.2	3.3	B87051
Do.	-	T	2-inch by 0		2,510	2,570	2,760	21.5	5.4	B87052
Choutea County										
Big Sandy										
Hygard	Big Sandy	M		1	2,260	2,290	2,310	7.3	.7	A34012
Outcrop	-	M		1	2,310	2,380	2,440	10.7	.8	D58285
Do.	-	M		1	2,150	2,210	2,260	11.0	.5	D58286
William Van Buskirk	-	M		1	2,130	2,240	2,510	18.6	1.1	87023
Iliad										
Lehfehlt	Eagle	M		1	2,510	2,570	2,630	20.2	.9	87066
Custer County										
Miles City										
Carl Jensen	-	M		2	2,430	2,500	2,540	7.4	.5	B47848 and B47849
Daniels County										
Scobey										
McNamara	-	M		1	2,120	2,180	2,480	13.6	3.2	A34098
Olson	-	M		1	2,040	2,110	2,160	13.8	.6	A3694
Dawson County										
Bloomfield										
Albrecht	-	M		1	2,360	2,420	2,460	11.6	.9	D75579
Chupp	-	M		1	2,240	2,260	-	11.8	.4	A3228
Glendive										
Smith	-	M		1	2,100	2,150	2,220	12.6	1.9	A34180
Richey										
Carroll	"E"	M		1	2,390	2,410	2,440	8.2	.5	A65452
Savage (Richland County)										
Chimney Rock	Pust	M		1	2,360	2,440	2,620	10.2	.7	D75580
Fergus County										
Lewistown										
Tuss	-	M		1	2,060	2,330	2,420	8.4	4.5	A31569
Do.	-	M		1	2,430	2,550	2,700	11.2	3.6	A33996
Flathead County										
Kalispell										
North Fork	-	M		1	2,090	2,140	2,260	19.4	3.6	A99161
Paola										
Outcrop	-	M		1	1,930	2,010	2,060	19.2	6.3	A4710
Garfield County										
Jordan										
Philipp H. Rath	-	M		1	2,010	2,080	2,320	13.8	.6	B33184

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MONTANA (Con.)										
Hill County										
Box Elder										
Blue Pony	Lance	M		1	2,190	2,280	2,330	12.0	.8	87065
Flatness	-	T	1-inch lump		2,330	2,410	2,540	11.0	.7	B87930
Havre										
Hoppe	-	T	1-1/2-inch lump		2,210	2,320	2,470	17.9	.8	B87729
Musselshell County										
Absher										
Carpenter Creek	Carpenter	M		2	2,110	2,170	2,240	4.8	1.3	A35858 and A35859
Klein										
Gantar	Mammoth	M		1	2,380	2,450	2,700	7.7	.8	B42090
Melstone										
Keene No. 2	Carpenter	T	6-inch lump		2,230	2,310	2,590	8.2	.7	D51766
Do.	do.	T	6- by 3-inch		2,100	2,380	2,520	10.2	.6	D51767
Do.	do.	T	3- by 1-1/2-inch		2,150	2,260	2,600	10.3	1.0	D51768
Do.	do.	T	1-1/2-inch by 0		2,100	2,150	2,500	13.4	1.5	D51769
Musselshell										
Black Diamond	do.	M		1	2,080	2,160	2,280	5.8	2.0	A35861
Roundup										
Berkley	Keene	T	6-inch lump		2,280	2,310	2,780	7.6	.4	B80696
Do.	do.	T	6- by 2-inch		2,480	2,550	2,780	9.8	.4	B80697
Do.	do.	T	2- by 1-1/4-inch		2,410	2,500	2,770	9.3	.4	B80698
Do.	do.	T	1-1/4- by 3/8-inch		2,270	2,360	2,740	10.0	.4	B80699
Do.	do.	T	3/8-inch by 0		2,260	2,340	2,780	13.3	.6	B80700
Big Vein	-	M		1	2,180	2,450	2,510	7.9	1.2	A2839
Gilbert & Crawford	-	M		1	2,170	2,220	2,280	8.7	.6	A2838
Gildroy	Mammoth	T	2-inch lump		2,430	2,520	2,840	6.0	.6	B80362
Do.	do.	T	2- by 1-1/4-inch		2,520	2,570	2,830	8.1	.7	B80363
Do.	do.	T	1-1/4- by 1/4-inch		2,330	2,450	2,810	7.2	.8	B80364
Do.	do.	T	Run-of-mine		2,310	2,420	2,760	7.7	.7	B80365
Do.	do.	T	1-1/4- by 1/8-inch		2,440	2,510	2,670	7.4	.9	E28397
Jeffries	Roundup	M		3	2,220	2,290	2,600	7.1	.6	A86904 to A86906
Do.	Mammoth	T	12- by 2-1/2-inch		2,470	2,520	2,620	6.0	.6	D52197
Do.	do.	T	2-1/2- by 1-1/4-inch		2,570	2,680	2,780	8.3	.6	D52198
Do.	do.	T	1-1/4-inch by 0		2,260	2,380	2,470	12.1	.9	D52199
Johnson	Roundup	T	6-inch lump		2,240	2,320	2,680	7.5	.6	B80299
Do.	do.	T	6- by 2-inch		2,280	2,360	2,540	6.6	.4	B80300
Do.	do.	T	2- by 1-1/4-inch		2,220	2,310	2,690	8.4	.4	B80301
Do.	do.	T	1-1/4- by 1/4-inch		2,280	2,370	2,700	9.0	.4	B80302
Do.	do.	T	1/4-inch by 0		2,170	2,220	2,560	11.3	.6	B80303
Keene	do.	M		2	2,080	2,190	2,330	6.7	.5	A31571 and A31572
Murphy	Bull Mountain	T	10-inch lump		2,270	2,310	2,810	6.7	1.0	B79969
Do.	do.	T	10- by 3-1/2-inch		2,240	2,330	2,800	7.3	1.1	B79970
Do.	do.	T	3-1/2- by 2-inch		2,270	2,360	2,800	7.8	1.0	B79971
Do.	do.	T	2- by 1/2-inch		2,140	2,260	2,720	12.8	1.0	B79972
Do.	do.	T	1/2-inch by 0		2,110	2,220	2,680	13.9	1.1	B79973
PM	Mammoth	T	2- by 1/4-inch		2,470	2,540	2,910	7.9	.8	B80556

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Do.	do.	T	1/4-inch by 0		2,310	2,380	2,910	8.1	1.1	B80557
Prescott	Roundup	M		1	2,240	2,320	2,570	9.4	.5	B42516
Do.	do.	T	9-inch lump		2,290	2,360	2,690	6.5	.5	B79719
Do.	do.	T	9- by 6-inch		2,330	2,370	2,680	7.8	.5	B79720
Do.	do.	T	6- by 2-inch		2,390	2,430	2,850	9.8	.5	B79721
Do.	do.	T	2- by 1-1/4-inch		2,410	2,480	2,900	11.3	.5	B79722
Do.	do.	T	1-1/4-inch by 0		2,330	2,380	2,730	11.1	.4	B79723
Republic No. 2	do.	M		2	2,300	2,420	2,530	9.4	.6	A31564 and A31565
Roundup No. 3	do.	M		1	2,230	2,310	2,620	8.3	.7	C60279
Do.	do.	T	9-inch lump		2,320	2,440	2,470	7.3	.4	D51755
Do.	do.	T	9- by 2-1/2-inch		2,430	2,460	2,490	10.1	.5	D51756
Do.	do.	T	2-1/2- by 1-1/2-inch		2,420	2,470	2,570	10.5	.4	D51757
Do.	do.	T	1-1/2- by 1/2-inch		2,360	2,450	2,560	12.0	.4	D51758
Do.	do.	T	1/2-inch by 0		2,080	2,230	2,470	11.2	.5	D51759
Williams	do.	T	10-inch lump		2,360	2,410	2,780	7.9	.6	B80159
Do.	do.	T	10- by 2-inch		2,430	2,470	2,910	9.3	.5	B80160
Do.	do.	T	2- by 1-1/4-inch		2,440	2,480	2,910	10.6	.5	B80161
Do.	do.	T	1-1/4- by 1/2-inch		2,360	2,430	2,730	10.2	.6	B80162
Do.	do.	T	1/2-inch by 0		2,260	2,330	2,690	10.8	.6	B80163
Park County										
Livingston										
Maxey	-	M		2	2,600	2,750	2,780 (1)	15.4	.5	B22766 and B22767
Phillips County										
Malta										
Ruby Gulch	-	M		1	2,040	2,090	2,160	25.6	1.8	86315
Powder River County										
Broadus										
Ash Creek	-	M		1	2,430	2,490	2,500	6.2	.5	C75916
Black Diamond	-	M		3	2,320	2,380	2,420	9.9	.3	C75723 to C75725
Curran	-	M		1	2,450	2,480	2,530	8.5	.4	B29377
Victor Stabio	-	M		1	2,390	2,420	2,470	11.4	.5	B56504
Superior	-	M		3	2,340	2,430	2,480	9.0	.5	C75917 to C75919
Coalwood										
North Star	-	M		3	2,280	2,330	2,380	9.2	.3	C75921 to C75923
Prairie County										
Terry										
Larson	-	M		1	2,250	2,360	2,400	23.7	.5	A3917
Richland County										
Culbertson (Roosevelt County)										
Jennison	-	T	3-inch lump		2,350	2,400	2,530	8.1	.4	B84067
Do.	-	T	3- by 2-inch		2,180	2,230	2,400	10.0	.5	B84068
Do.	-	T	2- by 1/2-inch		2,130	2,160	2,390	11.2	.5	B84069
Do.	-	T	1/2-inch by 0		2,050	2,150	2,330	16.3	.8	B84070
Lambert										
Elviro	"E"	M		1	2,330	2,350	2,370	9.8	.8	A65451
Pust	"A"	M		1	2,420	2,460	2,490	9.7	.8	A65453
Lane										
Lane	"D"	M		1	2,050	2,330	2,390	10.4	1.4	A65454
Sidney										
Sidney	-	T	1-1/4-inch lump		2,330	2,360	2,440	10.9	1.2	B83619
Do.	-	T	1-1/4- by 1/2-inch		2,120	2,200	2,260	16.7	4.1	B83620
Do.	-	T	1/2-inch by 0		2,020	2,090	2,280	17.1	2.2	B83621

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
MONTANA (Con.)										
Rosebud County										
Ashland										
Holt	-	M		1	2,090	2,140	2,660	5.4	.6	A42289
Castle Rock										
Brinkerd	-	M		1	1,970	2,090	2,210	9.2	2.5	96587
Colstrip										
Colstrip	Rosebud	M		1	2,160	2,210	2,470	10.1	1.1	A43229
Do.	do.	T	Run-of-mine		2,180	2,240	2,340	10.9	1.0	E51228
Eureka	do.	M		1	2,280	2,350	2,530	7.2	.9	A31175
Northwestern Improvement Co.	-	M		1	2,130	2,150	2,170	9.6	1.2	A5348
Do.	Rosebud	M		1	2,200	2,240	2,300	10.3	.6	A3292
Rosebud	do.	M		1	2,210	2,240	2,280	11.5	.8	C30033
Forsyth										
Wright	Wright	M		1	2,170	2,220	2,270	15.7	.8	96584
Lame Deer										
Alderson	Wall	M		1	2,030	2,100	2,180	5.9	.5	D51574
Lame Deer	-	T	1-1/2- by 1/2-inch		2,160	2,190	2,220	5.8	.6	E51020
Do.	-	T	1/2-inch by 0		2,080	2,170	2,430	8.3	.9	E51021
Lee										
McKay	Lee	M		1	2,130	2,190	2,310	9.4	.8	96583
Sheridan County										
Coalridge										
Acme	-	T	1-1/2-inch lump		2,470	2,500	2,520	9.3	.8	C65415
Plentywood										
Lee	-	M		1	2,110	2,160	2,280	11.7	2.7	A34100
Stillwater County										
Dean										
Garoutt	Eagle	M		1	2,390	2,450	2,510	7.2	1.1	A2759
Wibaux County										
Wibaux										
Peplinski	"C"	M		1	2,490	2,540	2,570	13.3	1.6	D71163
Stair	do.	M		1	2,230	2,310	2,360	15.5	1.6	D71162
NEVADA										
Lyon County										
Yerington										
Lewis	-	M		1	2,010	2,090	2,430	40.6	4.7	C10354
Do.	-	M		1	2,010	2,130	2,470	41.9	6.7	C10355
Do.	-	M		1	2,000	2,130	2,470	44.6	4.4	C10356

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Bernalillo County										
Canoncito										
Canoncito	Gibson	T	1-1/2-inch lump		2,180	2,240	2,580	8.2	.7	B60253
Do.	do.	T	1-1/2- by 1/2-inch		2,150	2,190	2,460	8.6	1.1	B60254
Do.	do.	T	1-1/4-inch by 0		2,140	2,170	2,570	9.8	1.1	B60255
Ferro	do.	M		3	2,010	2,090	2,320	7.2	1.0	B61939 to B61941
Do.	do.	T	1-1/2-inch lump		2,060	2,100	2,300	7.2	.8	B61946
Do.	do.	T	1-1/2- by 1/4-inch		2,060	2,100	2,370	9.8	1.3	B61947
Colfax County										
Brilliant										
Brilliant	Raton	T	1-1/2-inch lump		2,910+	-	-	19.0	.9	D66694
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	21.8	.8	D66695
Brilliant No. 2	do.	T	Run-of-mine		-	2,910	-	15.5	.7	B62699
Do.	do.	T	6-inch lump		2,910+	-	-	12.8	.7	C20540
Do.	do.	T	6- by 3-inch		2,910+	-	-	13.6	.5	C20541
Do.	do.	T	3- by 1-1/2-inch		2,910+	-	-	17.8	.6	C20542
Do.	do.	T	1-1/2- by 1-inch		2,910+	-	-	19.5	.7	C20543
Do.	do.	T	1-inch by 0		2,910+	-	-	16.2	.6	C20544
Dawson										
Dawson No. 6	do.	M		1	2,490	2,570	2,750	11.3	.6	B43412
Do.	do.	T	6-inch lump		2,860	2,910+	-	10.5	.6	C19141
Do.	do.	T	6- by 3-inch		2,860	2,910+	-	12.8	.6	C19142
Do.	do.	T	3- by 1-1/2-inch		2,780	2,890	-	14.7	.6	C19144
Do.	do.	T	1-1/2- by 1-inch		2,850	2,910+	-	15.2	.6	C19145
Do.	do.	T	1- by 1/2-inch		2,910	2,910+	-	18.5	.6	C19146
Do.	do.	T	1-inch by 0		2,890	2,910+	-	19.2	.6	C19147
Dawson No. 9	do.	M		1	2,630	2,800	2,860	12.5	.7	99193
Phelps Dodge No. 1	Vermejo	M		1	2,750	2,800	2,870	27.0	.7	A40607
Phelps Dodge No. 2	Raton	M		1	2,450	2,740	2,760	19.0	.7	98443
Phelps Dodge No. 3	Vermejo	M		1	2,320	2,480	2,650	12.5	.8	A40605
Phelps Dodge No. 4	do.	M		1	2,820	2,870	2,890+	15.9	.7	A40606
Phelps Dodge No. 5	do.	M		1	2,810	2,850	2,890	14.3	.7	A40603
Phelps Dodge No. 6	Raton	M		1	2,560	2,600	2,860	14.9	.7	B34572
Phelps Dodge No. 8	Vermejo	M		2	2,770	2,810	2,880	19.4	.9	A40597 and A40598
Phelps Dodge No. 9	do.	M		2	2,780	2,840	2,900+(1) 2,870 (1)	19.0	.8	A40600 and A40601
Koehler										
Koehler No. 1	Raton	M		5	2,750 (2)	2,910+(3) 2,870 (2)	2,910+(2)	10.6	.8	B62690 to B62694
Koehler No. 2	do.	M		2	2,610 (1)	2,910+(1) 2,780 (1)	- 2,910 (1)	10.1	.8	B62696 and B62697
Do.	do.	T	4- by 1-1/2-inch (W)		2,740	2,850	2,910+	13.1	.6	E34861
Do.	do.	T	1-1/2- by 1-inch (W)		2,910+	-	-	13.3	.7	E34862
Do.	do.	T	1- by 1/4-inch (W)		2,910+	-	-	12.2	.6	E34863
Do.	do.	T	1/4-inch by 0 (W)		2,620	2,760	2,910+	13.0	.7	E34864
Raton										
Block	-	T	1-1/2-inch lump		2,730	2,830	2,910+	6.9	.6	E35573
Do.	-	T	1-1/2-inch by 0		2,840	2,910+	-	10.2	.5	E35574
Block No. 2	Block	T	1-1/2-inch lump		2,580	2,640	2,780	6.7	.5	B62924
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	8.0	.5	B62925
Davis	-	T	1-inch lump		2,910+	-	-	10.0	.5	B62926
Do.	-	T	1-inch by 0		2,910+	-	-	12.8	.5	B62927
Franks	-	T	1-1/2-inch lump		2,900	2,910+	-	13.5	.7	C18554
Do.	-	T	1-1/2-inch by 0		2,910+	-	-	17.6	.8	C18555
Franks No. 1	Sugarite	T	1-1/2-inch lump		2,910+	-	-	14.6	.8	E35571
Do.	do.	T	1-1/2-inch by 0		2,910+	-	-	11.6	.6	E35572

1 M, mine sample; T, tipple sample 2 W, washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
NEW MEXICO (Con.)										
Colfax County (Con.)										
Raton										
Genta	-	T	1-1/2-inch lump		2,710	2,810	2,910+	10.0	.6	E35865
Do.	-	T	1-1/2-inch by 0		2,340	2,430	2,650	12.9	.6	E35866
Krek	-	M		1	2,440	2,580	2,740	5.7	.6	A16714
Rodman	-	T	1-1/2-inch lump		2,780	2,860	2,910+	10.1	.5	E35575
Do.	-	T	1-1/2- by 3/16-inch		2,910+	-	-	19.3	.6	E35576
Do.	-	T	3/16-inch by 0		2,730	2,860	2,910+	34.4	.7	E35577
Sonchar	-	T	1-1/2-inch lump		2,910+	-	-	13.1	.6	E34628
Do.	-	T	1-1/2- by 1/4-inch		2,910+	-	-	21.5	.7	E34629
Do.	-	T	1/4-inch by 0		2,910+	-	-	22.8	.7	A34630
Turner	-	M		1	2,880	2,920	2,950	12.3	.6	A1563
Do.	Yankee	T	1-inch lump		2,590	2,710	2,810	7.0	.5	B62547
Do.	do.	T	1-inch by 0		2,590	2,770	2,900	15.6	.6	B62548
Yankee No. 1	-	T	1-1/2-inch lump		2,860	2,910+	-	12.5	.7	E35569
Do.	-	T	1-1/2-inch by 0		2,890	2,910+	-	16.3	.7	E35570
Van Houten										
Van Houten	Raton	T	Run-of-mine		2,910+	-	-	13.6	.9	D66485
Do.	do.	T	do.		2,910+	-	-	19.7	.6	E35138
Van Houten No. 4	do.	T	do.		2,910+	-	-	14.9	.8	C18551
Lincoln County										
Capitan										
Ruidoso	-	T	1-inch lump		2,420	2,490	2,690	17.1	.6	B62135
Do.	-	T	1- by 3/8-inch		2,380	2,420	2,610	22.0	.7	B62136
Oscura										
Grey	-	M		1	2,110	2,180	2,340	14.7	1.0	96545
McKinley County										
Crown Point										
Crown Point	-	M		2	2,120	2,200	2,470	11.2	1.6	A46444 and A46445
Do.	No. 3	T	1-1/2-inch lump		2,460	2,570	2,780	11.5	.8	B62401
Do.	do.	T	1-1/2-inch by 0		2,340	2,470	2,630	14.2	1.4	B62402
Hanna	-	T	1-1/2-inch lump		2,170	2,330	2,750	8.6	.8	E60004
Do.	-	T	1-1/2-inch by 0		2,200	2,250	2,540	9.9	1.1	E60005
Prospect	-	M		1	2,150	2,210	2,470	7.6	1.0	D94738
Estrella										
Outcrop	-	M		1	2,720	2,810	-	6.5	.5	A23141
Fort Defiance (Arizona)										
Duclos	-	M		1	2,260	2,420	2,590	5.5	.7	A46584
Gallup										
Atherton	Black Diamond	M		3	2,660	2,750	2,910+(1) 2,840 (2)	7.0	.7	B59933 to B59935
Do.	do.	T	8-inch lump		2,660	2,720	2,820	7.2	.7	B59940
Do.	do.	T	4- by 1-inch		2,610	2,730	2,840	8.8	.7	B59941
Do.	do.	T	1-inch by 0		2,390	2,470	2,620	12.3	1.0	B59942
Aztec	Aztec	T	1-1/2-inch lump		2,160	2,260	2,600	7.4	.7	B60974

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Do.	do.	T	1-1/2- by 3/8-inch		2,200	2,260	2,600	10.2	.8	B60975
Do.	do.	T	1-1/2-inch by 0		2,220	2,290	2,600	11.4	.6	B60976
Do.	do.	M		2	2,160	2,270	2,560	8.0	.6	B60977 and B60978
Biava	Black Diamond	M		2	2,480	2,600	2,750	8.7	.9	B60396 and B60397
Do.	do.	T	5-1/2-inch lump		2,520	2,660	2,780	10.8	.8	C16086
Do.	do.	T	5-1/2- by 1-1/2-inch		2,780	2,860	2,910+	14.4	.8	C16087
Do.	do.	T	1-1/2- by 3/8-inch		2,770	2,860	2,910+	18.1	.7	C16088
Do.	do.	T	3/8-inch by 0		2,530	2,670	2,870	18.4	.8	C16089
Biava No. 3	Brown	T	8-inch lump		2,420	2,650	2,790	6.6	.6	E58781
Do.	do.	T	8- by 2-inch		2,680	2,790	2,910	9.8	.6	E58782
Do.	do.	T	2- by 1-inch		2,510	2,650	2,840	16.0	.8	E58783
Do.	do.	T	1- by 3/8-inch		2,500	2,610	2,810	12.2	.7	E58784
Do.	do.	T	3/8-inch by 0		2,250	2,470	2,700	23.2	1.5	E58785
Black Star	Aztec	M		3	2,220	2,280	2,500	6.1	.6	B60338 to B60340
Do.	do.	T	1-1/2-inch lump		2,360	2,490	2,700	10.6	.7	D94052
Do.	do.	T	1-1/2-inch by 0		2,310	2,450	2,670	12.2	.5	D94053
Boardman	-	M		3	2,610	2,750	2,860	11.7	.7	B60534 to B60536
Do.	Grenko	T	4-inch lump		2,860	2,910+	-	11.6	.6	C16788
Do.	do.	T	4- by 1-1/2-inch		2,880	2,910+	-	15.6	.6	C16789
Do.	do.	T	1-1/2-inch by 0		2,620	2,800	2,910+	19.3	.7	C16790
Chiaramonte	Black Diamond	M		3	2,670	2,760	2,890	7.0	.8	B59518 to B59520
Do.	do.	T	1-1/2-inch lump		2,610	2,810	2,910+	10.4	1.0	E59998
Do.	do.	T	1-1/2- by 1/2-inch		2,710	2,790	2,910	10.4	.8	E59999
Do.	do.	T	1/2-inch by 0		2,400	2,460	2,700	12.0	1.1	E60000
Gallup Southwestern	do.	M		3	2,420	2,480	2,640	7.6	.8	A89048 to A89050
George	Aztec	M		3	2,060	2,180	2,560	5.9	.8	B60032 to B60034
Do.	do.	T	2-inch lump		2,220	2,380	2,750	11.4	.6	E60001
Do.	do.	T	2- by 3/8-inch		2,220	2,360	2,730	14.4	.7	E60002
Do.	do.	T	3/8-inch by 0		2,150	2,220	2,460	15.6	1.0	E60003
Grenko	-	M		3	2,170	2,260	2,650	5.3	.6	B59430 to B59432
Do.	Aztec	T	3-inch lump		2,310	2,410	2,570	6.0	.6	B59437
Do.	do.	T	1-1/8-inch lump		2,310	2,410	2,570	6.5	.5	B59438
Do.	do.	T	3- by 1-1/2-inch		2,310	2,360	2,570	7.6	.6	B59439
Do.	do.	T	1-1/8- by 1/2-inch		2,320	2,480	2,680	11.3	.6	B59440
Do.	do.	T	1-1/8-inch by 0		2,380	2,520	2,740	15.6	.6	B59441
Juliano	Otero	M		1	2,290	2,390	2,690	4.9	.5	A89052
Liberty	Black Diamond	M		1	2,760	2,830	2,880	11.2	.7	A46583
New Mutual	Aztec	T	1-1/2-inch lump		2,430	2,650	2,870	14.6	.6	E60006
Do.	do.	T	1-1/2- by 1/2-inch		2,180	2,470	2,730	13.9	.7	E60007
Do.	do.	T	1/2-inch by 0		2,110	2,230	2,460	14.1	1.1	E60008
Noce	-	M		1	2,010	2,130	2,310	7.1	1.5	A46585
Peacock	No. 3 1/2	T	6-inch lump		2,310	2,360	2,650	7.3	.5	D94054
Do.	do.	T	6-inch by 0		2,350	2,460	2,700	13.2	.5	D94055
Do.	do.	T	2-inch lump		2,110	2,310	2,590	5.9	.5	E60009
Do.	do.	T	2- by 3/8-inch		2,140	2,270	2,610	8.1	.6	E60010
Do.	do.	T	3/8-inch by 0		1,910	2,050	2,350	14.3	1.9	E60011
Roberts	Thatcher	T	4-inch lump		2,570	2,680	2,800	6.0	.8	E58927
Do.	do.	T	4- by 1-1/2-inch		2,590	2,690	2,820	8.8	.6	E58928
Do.	do.	T	1-1/2- by 1/4-inch		2,460	2,650	2,790	10.4	.7	E58929
Do.	do.	T	1/4-inch by 0		2,220	2,450	2,700	19.6	.5	E58930
Soper	-	T	1-1/2-inch lump		2,910+	-	-	14.2	.7	C16668
Do.	-	T	1-1/2-inch by 0		2,380	2,440	2,700	19.7	1.2	C16669
Southwestern	Black Diamond	T	4-inch lump		2,780	2,850	2,910+	9.4	.7	C16335
Do.	do.	T	4- by 1/2-inch		2,890	2,910+	-	14.4	.7	C16336
Do.	do.	T	1/2-inch by 0		2,440	2,470	2,840	17.1	1.1	C16337
Gamerco										
Navajo No. 5	No. 3	M		2	2,130	2,200	2,520	5.0	.5	B59748 and B59749
Do.	No. 3 1/2	M		2	2,260	2,340	2,720	7.2	.5	B59746 and B59747
Do.	No. 5	M		3	2,360	2,490	2,760	9.1	.5	B59743 to B59745
Mentmore										
Carbon City	No. 2	T	6-inch lump		2,400	2,500	2,740	10.1	.6	D94050

1 M, mine sample; T, tipple sample 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
NEW MEXICO (Con.)										
McKinley County (Con.)										
Mentmore										
Carbon City	No. 2	T	6-inch by 0		2,220	2,420	2,610	9.7	.8	D94051
Do.	do.	T	1-1/2-inch lump		2,350	2,590	2,750	10.3	.6	E59995
Do.	do.	T	1-1/2- by 1/4-inch		2,380	2,630	2,910+	12.2	.7	E59996
Do.	do.	T	1/4-inch by 0		2,130	2,230	2,530	15.7	1.5	E59997
Cattaneo	Upper Seam	T	1-1/2-inch lump		2,780	2,850	2,910+	14.6	1.6	C17156
Do.	do.	T	1-1/2- by 1/2-inch		2,540	2,620	2,750	16.3	2.3	C17157
Do.	do.	T	1/2-inch by 0		2,520	2,600	2,750	21.5	2.8	C17158
Defiance	Defiance	M		3	2,240	2,350	2,640	6.6	.6	A89044 to A89046
Do.	Defiance No. 1	M		3	2,130	2,230	2,380	6.7	.6	A11467 to A11469
Defiance No. 1	do.	M		3	2,070	2,170	2,450	5.2	.9	B60784 to B60786
Do.	Dilco No. 1	T	8-inch lump		2,300	2,360	2,710	6.1	.8	D66162
Do.	do.	T	8- by 2-inch		2,310	2,470	2,780	7.8	.6	D66163
Do.	do.	T	2-inch by 0		2,310	2,450	2,750	8.3	.7	D66164
Mexican Springs										
Prospect	Gibson	M		1	2,360	2,600	2,730	12.5	.6	E19770
Do.	do.	M		1	2,700	2,840	2,910	6.5	.6	E19771
Do.	do.	M		1	2,680	2,810	2,910+	14.7	.7	E19772
Prewitt										
Bloomfield	-	M		1	2,280	2,330	2,540	7.6	.5	C11073
Tohatchi										
Martin	-	T	2-inch lump		2,720	2,840	2,910+	11.2	.5	D94812
Do.	-	T	2-inch by 0		2,770	2,860	2,910+	12.8	.5	D94813
Tohatchi	-	M		1	2,550	2,700	2,780	11.8	.7	A46443
Do.	No. 1	T	4-inch lump		2,490	2,680	2,820	11.4	.5	B61212
Do.	do.	T	4- by 1/4-inch		2,690	2,780	2,890	14.3	.6	B61213
Window Rock (Arizona)										
Ganado Mission	-	T	Run-of-mine		2,340	2,450	2,720	12.1	.7	E60505
Window Rock	-	T	1-3/4-inch lump		2,380	2,440	2,730	7.5	.6	D94739
Do.	-	T	1-3/4-inch by 0		2,180	2,310	2,490	8.2	.6	D94740
Zuni										
Zuni	No. 1	T	3-inch lump		2,910+	-	-	18.6	.7	B62432
Do.	do.	T	3- by 1-inch		2,910+	-	-	18.2	.7	B62433
Do.	do.	T	1-inch by 0		2,880	2,910+	-	19.8	.7	B62434
Zuni No. 2	-	T	2-inch lump		2,840	2,910+	-	18.9	.7	D95576
Do.	-	T	2- by 1-inch		2,910+	-	-	19.9	.6	D95577
Do.	-	T	1-inch by 0		2,490	2,600	2,780	17.2	1.0	D95578
Rio Arribo County										
Lumberton										
Amargo	Lower Seam	T	1-1/2-inch lump		2,670	2,800	2,910+	8.6	.5	C11394
Do.	do.	T	1-1/2- by 1-1/4-inch		2,670	2,780	2,910+	13.2	.7	C11395
Do.	do.	T	1-1/4-inch by 0		2,740	2,860	2,910+	15.0	.7	C11396
Castelone	-	M		1	2,330	2,620	2,790	7.6	.5	A17885
Garcia	Upper Seam	M		2	2,820	2,910+(1) 2,840 (1)	2,910+(1)	6.3	.7	B42601 and B42602

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Kutz	-	M		1	2,080	2,370	2,450	7.5	1.5	A17794
Do.	Upper Seam	M		1	2,740	2,820+	-	10.8	.9	A37934
Miller	-	M		1	2,290	2,380	2,510	13.3	2.7	A37775
Monero										
Caranta	-	M		1	2,090	2,390	2,450	10.9	3.1	94196
Do.	Upper Seam	T	8-inch lump		2,130	2,310	2,420	9.2	2.7	D93674
Do.	do.	T	8-inch by 0		2,050	2,340	2,420	12.4	2.7	D93675
Do.	do.	T	1- by 1/8-inch		2,380	2,440	2,590	16.1	3.0	D93676
Do.	do.	T	1/8-inch by 0		2,570	2,670	2,780	25.2	2.8	D93677
Rainbow	do.	T	5-inch lump		1,930	2,040	2,260	10.9	4.6	C11187
Do.	do.	T	5-inch by 0		1,950	2,110	2,280	13.9	3.8	C11188
Do.	do.	T	8-inch lump		2,130	2,450	2,580	8.8	2.5	D93755
Do.	do.	T	8-inch by 0		2,180	2,440	2,570	11.4	2.9	D93756
Western Fuel Company	-	M		1	2,010	2,210	2,390	10.3	3.6	A37774
Tierra Amarilla										
Dandee	-	T	1-inch lump		2,180	2,260	2,470	9.4	1.3	C30859
Do.	-	T	1-inch by 0		2,130	2,200	2,420	11.5	1.4	C30860
Sandoval County										
Algodones										
Donnell (Prospect)	-	M		1	2,100	2,210	2,410	6.9	.6	96548
Hagan	Hopewell	M		1	2,110	2,180	2,340	14.7	1.0	96546
Cuba										
McDonald (Prospect)	Kaseman	M		1	2,010	2,110	2,320	5.8	2.5	A23137
Mitchell (Prospect)	-	M		1	2,150	2,190	2,390	5.8	.9	96547
Padilla	-	T	Run-of-mine		2,090	2,140	2,360	4.8	.8	D93678
Do.	-	T	1-1/2-inch lump		2,050	2,100	2,420	5.9	.9	E60508
Do.	-	T	1-1/2-inch by 0		2,030	2,100	2,430	6.9	.9	E60509
Sunny Slope	-	T	1-1/2-inch lump		1,990	2,050	2,330	8.1	2.1	E60510
Do.	-	T	1-1/2-inch by 0		1,940	2,000	2,190	10.8	2.8	E60511
Hagan										
Hagan No. 1	Hopewell	M		3	2,090	2,170	2,270	8.6	.7	A6842 to A6844
LaVentana										
Anderson	-	M		2	2,290	2,380	2,510	6.8	.9	A75538 and A75539
Do.	Flat	M		1	2,220	2,280	2,620	11.6	.8	C11076
Do.	Gibson	T	1-1/4-inch lump		2,270	2,290	2,570	10.6	1.0	B62255
Do.	do.	T	1-1/4- by 1/4-inch		2,260	2,280	2,580	13.0	1.1	B62256
Do.	do.	T	1/4-inch by 0		2,110	2,150	2,430	16.6	1.6	B66251
McDonald	do.	T	1-inch lump		2,330	2,470	2,780	5.8	.7	B62361
Do.	do.	T	1-inch by 0		2,160	2,340	2,730	11.1	1.3	B62362
Peacock	do.	T	1-inch lump		2,290	2,400	2,640	9.7	.5	B62258
Do.	do.	T	1-inch by 0		2,290	2,420	2,640	12.4	.6	B62259
Peacock No. 2	Flat	M		1	2,140	2,270	2,620	11.8	.8	C11075
San Juan	-	M		1	2,230	2,340	2,650	7.0	.7	A47085
Wilkins No. 2	-	M		1	2,090	2,110	2,130	8.1	1.0	A47084
Casement (Prospect)	-	M		1	2,140	2,280	2,500	11.6	1.4	A46367
McKinley City										
Outcrop	-	M		1	2,050	2,120	2,270	8.8	1.3	A45560
San Ysidero										
San Ysidero	Flat	M		1	2,030	2,070	2,260	11.4	.5	C11074
San Juan County										
Aztec										
Fields	Carbon	T	Run-of-mine		-	2,910+	-	10.8	.7	B61246
Kempton	No. 1	T	2-inch lump		2,550	2,680	2,780	12.0	.5	C30709
Do.	do.	T	2- by 1/2-inch		2,570	2,700	2,800	17.7	.6	C30710
Morgan	Carbon	T	1-1/2-inch lump		2,910+	-	-	10.5	.7	B61247
Thomas	do.	T	1-1/2-inch lump		2,910+	-	-	8.9	.7	B61248
Fruitland										
Black Diamond	-	T	1-1/2-inch lump		2,380	2,620	2,810	9.5	.7	C14752

1/ M, mine sample; T, tipple sample 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
NEW MEXICO (Con.)										
San Juan County (Con.)										
Fruitland										
Foutz	No. 1	T	3-inch lump		2,420	2,490	2,660	11.3	.6	B61216
Do.	do.	T	3-inch by 0		2,620	2,740	2,790	13.5	.8	B61217
Smouse	do.	T	1-1/4-inch lump		2,520	2,700	2,780	13.0	.5	B61220
Do.	do.	T	1-1/4-inch by 0		2,430	2,510	2,670	15.5	.7	B61221
Stallings	-	T	1-1/4-inch lump		2,670	2,810	2,910+	11.9	.6	C14754
Do.	-	T	1-1/4-inch by 0		2,720	2,850	2,910+	14.0	.8	C14755
Laplata										
Morgan & Thomas	-	T	2-1/2-inch lump		2,910+	-	-	8.2	.7	C15058
Do.	-	T	2-1/2- by 1-1/4-inch		2,910+	-	-	13.2	.8	C15059
Do.	-	T	1-1/4-inch by 0		2,860	2,910+	-	14.3	1.0	C15060
Shiprock										
Davidson	Hogback No. 1	T	2-inch lump		2,090	2,140	2,400	4.3	.6	D95879
Do.	do.	T	2- by 1-1/2-inch		2,120	2,160	2,380	4.4	.5	D95880
Do.	do.	T	1-1/2- by 3/8-inch		2,200	2,300	2,470	6.5	.6	D95881
Do.	do.	T	1-1/2-inch by 0		2,130	2,230	2,470	10.6	1.0	D95882
Joe Duncan	-	M		1	2,080	2,390	2,530	3.6	.9	A46365
Duncan No. 6	Hogback No. 1	T	2-1/2-inch lump		2,070	2,190	2,470	3.6	.7	D96284
Do.	do.	T	2-1/2-inch by 0		1,940	2,160	2,420	6.1	1.3	D96285
Indian	-	M		1	2,030	2,300	2,410	5.6	1.4	A46364
Peshlakai No. 11	Hogback No. 1	T	2-inch lump		2,090	2,170	2,510	4.4	.7	D96282
Do.	do.	T	2-inch by 0		1,920	2,030	2,250	6.6	1.4	D96283
Toadlena	-	T	4-inch lump		2,140	2,220	2,470	7.3	1.5	C15055
Do.	-	T	4- by 3/4-inch		2,150	2,290	2,540	8.1	1.4	C15056
Do.	-	T	3/4-inch by 0		2,150	2,220	2,510	8.8	1.6	C15057
W. & W.	No. 1	T	2-inch lump		2,130	2,290	2,450	3.8	.7	C31312
Do.	do.	T	2- by 3/4-inch		2,340	2,480	2,580	4.3	.6	C31313
Do.	do.	T	3/4-inch by 0		2,590	2,650	2,750	8.4	.9	C31314
Santa Fe County										
Madrid										
Albuquerque No. 4	White Ash	M		3	2,100	2,240	2,280	6.8	.9	90006 to 90008
Do.	do.	T	4- by 3-inch		2,160	2,240	2,490	6.2	.9	B60333
Do.	do.	T	3- by 2-1/2-inch		2,240	2,340	2,570	8.7	.8	B60334
Do.	do.	T	2-1/2- by 1-3/4-inch		2,240	2,340	2,570	8.7	.8	B60335
Do.	do.	T	1-3/4- by 1-1/4-inch		2,240	2,360	2,560	8.0	.8	B60336
Do.	do.	T	7/8- by 1/2-inch		2,240	2,300	2,540	10.5	.7	B60337
Albuquerque No. 8	do.	M		2	2,140	2,300	2,500	9.2	.9	A68848 and A68849
Albuquerque No. 33	do.	M		2	2,060	2,190	2,320	9.0	1.6	A68851 and A68852
Jones	Cook & White	M		4	2,140	2,290	2,440	14.2	1.3	A68860 to A68863
Do.	do.	M		1	2,120	2,220	2,530	9.9	.8	B43414
Do.	do.	T	3-inch lump		2,230	2,300	2,660	7.8	.7	B60248
Do.	do.	T	3- by 2-1/2-inch		2,230	2,320	2,570	9.0	.8	B60249
Do.	do.	T	2-1/2- by 1-1/2-inch		2,240	2,320	2,570	9.4	.8	B60250
Do.	do.	T	1-1/2- by 1-inch		2,240	2,310	2,700	9.1	.7	B60251
Do.	do.	T	1- by 3/8-inch		2,250	2,330	2,650	11.3	.7	B60252

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Lamb	do.	M		5	2,370	2,570	2,720	10.2	.7	A68854 to A68858
Do.	do.	M		1	2,290	2,380	2,720	9.4	.6	B43413
Socorro County										
Carthage										
Carthage	Carthage	T	3/8-inch lump		2,770	2,910	-	14.2	.9	B61991
Magdalena										
Scartacinii	-	M		1	2,880	2,910+	-	28.5	2.3	C11078
Socorro										
Carthage No. 3	Carthage	T	2-inch lump		2,910+	-	-	8.3	.6	D95077
Do.	do.	T	2-inch by 0		2,790	2,870	2,910+	12.5	.6	D95078
Tokay										
Kinney	do.	T	2-inch lump		2,840	2,910+	-	8.9	.7	B61988
Do.	do.	T	2- by 1-inch		2,880	2,910+	-	10.8	.6	B61989
Do.	do.	T	1- by 3/8-inch		2,890	2,910+	-	11.8	.7	B61990
Do.	do.	M		1	-	2,840	-	12.0	1.2	96133
Kinney No. 2	do.	M		3	2,720 (2)	2,910+(1) 2,690 (2)	2,910+(1) 2,720 (1)	6.8	.7	B46646 to B46648
Valencia County										
Grants										
Hutton	-	T	1-inch lump		2,280	2,360	2,680	10.3	.7	C28756
Lobo Canyon	-	T	1-1/2-inch lump		2,250	2,330	2,730	6.5	.7	B62363
Do.	-	T	1-1/2-inch by 0		2,240	2,290	2,730	9.3	.9	B62364
Mayes	-	T	2-1/2-inch lump		2,010	2,150	2,480	7.8	1.7	B62403
Do.	-	T	2-1/2- by 1-inch		2,070	2,160	2,470	7.0	1.2	B62404
Do.	-	T	1-inch by 0		2,030	2,130	2,470	7.1	1.4	B62405
NORTH CAROLINA										
Chatham County										
Cumnock (Lee County)										
Farmville	Deep River (Top Bench)	M		3	2,020	2,200	2,320	7.8	2.3	85590, 85591 and 85605
Do.	Deep River (Bottom Bench)	M		2	2,050	2,150	2,240	29.6	3.1	85593 and 85594
Sanford (Lee County)										
Carolina	Cumnock	M		1	2,600	2,680	2,750	7.4	1.6	C89024
Do.	do.	M		1	1,990	2,210	2,500	6.0	2.6	D22822
Do.	Cumnock (Top Bench)	M		1	2,100	2,310	2,570	13.3	4.1	D46425
Do.	Cumnock (Lower Bench)	M		1	2,050	2,130	2,360	34.6	3.1	D46427
Do.	Gulf	M		1	1,940	2,000	2,210	28.6	4.0	D46426
Lee County										
Cumnock										
Cumnock	Deep River (Upper Bench)	M		4	2,130	2,270	2,330	8.5	2.2	85446 to 85449
Erskin Ramsey	do.	M		3	1,950	2,220	2,300	7.1	2.4	A27690 to A27692
Sanford										
Dean No. 2	do.	M		3	2,040	2,230	2,540	17.2	5.1	A95552 to A95554
Moore County										
Carbonton										
Zella	do.	M		3	2,530	2,600	2,660	21.2	3.3	A95543 to A95545

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
NORTH CAROLINA (Con.)										
Stokes County										
Winston-Salem (Forsyth Co.)										
Stokesbury No. 2 (Prospect)	-	M		5	2,190	2,380	2,540	42.2	5.5	A95591 to A95595
NORTH DAKOTA										
Adams County										
Haynes										
Arrowhead	-	T	4-inch lump		2,280	2,310	2,370	11.3	1.6	B91744
Do.	-	T	4- by 2-inch		2,190	2,210	2,260	11.7	1.8	B91745
Do.	-	T	2- by 3/8-inch		2,150	2,180	2,250	14.2	2.5	B91746
Do.	-	T	3/8-inch by 0		2,150	2,180	2,210	14.9	2.2	B91747
Do.	-	T	2-inch lump		2,030	2,130	2,150	15.8	1.9	D73697
Do.	-	T	2- by 3/8-inch		2,130	2,180	2,210	20.1	2.1	D73698
Do.	-	T	3/8-inch by 0		2,120	2,180	2,230	24.7	2.2	D73699
Dakota	Haynes	M		1	2,230	2,270	2,460	12.9	2.0	B77966
Pearl Butte	-	M		3	2,190	2,330	2,370	12.1	2.4	C69504 to C69506
Do.	-	T	1-1/2-inch lump		2,330	2,340	2,360	11.2	1.7	C69590
Do.	-	T	1-1/2-inch by 0		2,150	2,290	2,310	13.0	2.1	C69591
State	Haynes	M		1	2,140	2,200	2,260	10.7	2.0	A45700
Hettinger										
Ihle	-	M		1	2,180	2,230	2,280	11.4	1.9	A42558
Regent										
Komenda	-	M		1	2,360	2,390	2,450	11.6	1.4	A42736
Bowman County										
Bowman										
Halleck	-	M		1	2,320	2,340	2,380	9.8	1.3	A45696
Twin Buttes	-	T	Run-of-mine		2,300	2,470	2,620	10.5	1.7	C66586
Gascoyne										
Peerless	-	T	8- by 2-inch		2,360	2,500	2,570	11.3	1.4	D73700
Do.	-	T	Run-of-mine		2,100	2,360	2,440	12.4	1.4	D73701
Scranton										
Buffalo Creek	Haynes	M		1	2,060	2,080	2,150	12.9	2.0	A45698
Scranton	-	M		1	2,130	2,210	2,260	12.0	2.4	A45697
Burke County										
Columbus										
Bonsness	-	T	2-inch lump		2,070	2,270	2,590	7.1	.5	B84831
Do.	-	T	2- by 1-5/8-inch		2,080	2,120	2,560	12.7	.6	B84832
Do.	-	T	1-5/8- by 1/2-inch		2,160	2,220	2,560	18.0	.5	B84833
Do.	-	T	1/2-inch by 0		2,220	2,290	2,570	21.0	.6	B84834
Kincaid	Noonan	M		1	2,080	2,150	2,180	12.7	.5	A46066
Do.	-	T	8- by 5-inch		2,080	2,160	2,210	8.4	.5	D72375
Do.	-	T	5- by 2-inch		1,970	2,080	2,210	9.5	.5	D72376
Do.	-	T	2- by 1/2-inch		2,050	2,100	2,130	13.4	.5	D72377
Do.	-	T	1/2-inch by 0		2,040	2,070	2,200	15.5	.7	D72378

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Burleigh County										
Wilton (McLean County)										
Backman	-	T	Run-of-mine		2,380	2,540	2,570	8.4	1.0	C68253
Burleigh	-	T	1-1/2- by 1/2-inch		2,230	2,460	2,530	9.1	1.2	B56059
Do.	Burleigh	M		1	2,100	2,370	2,410	10.5	1.7	B77891
Do.	do.	T	8-inch lump		2,310	2,440	2,490	8.0	1.1	B91978
Do.	do.	T	8- by 4-inch		2,320	2,440	2,490	8.4	.9	B91979
Do.	do.	T	3- by 2-inch		2,310	2,390	2,420	9.8	1.0	B91980
Do.	do.	T	1-1/2- by 1/2-inch		2,310	2,350	2,420	9.9	1.0	B91981
Do.	do.	T	2-inch by 0		2,210	2,270	2,320	11.9	1.0	B91982
Ecklund	-	T	Run-of-mine		2,370	2,390	2,420	12.1	1.3	C68254
Wilton	-	M		2	2,320	2,380	2,470	9.1	1.7	A45791 and A45792
Divide County										
Noonan										
Baukol-Noonan	Noonan	M		1	2,160	2,200	2,440	11.9	1.0	B79123
Do.	do.	T	12- by 4-inch		2,050	2,420	2,470	8.0	.4	D71920
Do.	do.	T	4- by 3-inch		2,470	2,520	2,620	8.2	.5	D71921
Do.	do.	T	3- by 2-inch		2,470	2,520	2,620	8.5	.5	D71922
Do.	do.	T	2-inch by 0		2,230	2,420	2,470	9.7	.6	D71923
Do.	do.	T	1/4-inch by 0		2,100	2,130	2,150	13.5	.9	D71924
Dunn County										
Dunn Center										
Pelton	-	T	2-inch lump		2,450	2,530	2,550	7.8	.7	D73189
Do.	-	T	2- by 1/2-inch		2,470	2,520	2,570	11.2	1.4	D73190
Do.	-	T	1/2-inch by 0		2,540	2,580	2,620	10.8	1.1	D73191
Grant County										
Elgin										
Beck & Ensminger	-	M		1	2,300	2,330	2,420	6.4	.8	A45790
New Leipzig										
Davenport	-	M		1	2,280	2,310	2,380	10.0	1.6	A42616
Do.	-	T	1-1/4-inch lump		2,210	2,470	2,520	11.6	1.5	D74104
Do.	-	T	1-1/4-inch by 0		1,970	2,100	2,150	24.0	2.8	D74105
Ketterling	-	M		2	2,110	2,140	2,180	12.5	1.9	C75475 and C75476
Knopp	-	M		1	1,990	2,060	2,090	15.3	2.3	A3163
Hettinger County										
Havelock										
Austin	-	M		1	2,290	2,360	2,390	8.6	1.0	C75722
Mott										
Watson	-	M		1	2,340	2,380	2,420	9.1	1.9	A45699
McKenzie County										
Arnegard										
Fortenson	-	M		1	2,050	2,100	2,150	13.5	1.0	A46350
Watford City										
Bond	-	M		1	1,950	2,040	2,100	10.1	1.0	C65416
Shelley	-	M		1	2,030	2,060	2,110	8.3	1.0	A46351
Do.	-	M		1	1,980	2,030	2,080	9.1	.9	C65417
McLean County										
Garrison										
Custer	-	T	Run-of-mine		2,490	2,510	2,540	7.9	.6	C68687
Do.	-	T	12- by 7-inch		2,570	2,620	2,680	6.5	.5	D72890
Do.	-	T	7- by 2-inch		2,540	2,570	2,620	8.4	.6	D72891

1 M - Mine sample, T - Tipple sample 2 A - Washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
NORTH DAKOTA (Con.)										
McLean County (Con.)										
Garrison										
Custer	-	T	2-inch by 0		2,210	2,340	2,370	12.0	.6	D72892
Stevens	-	M		1	2,330	2,400	2,460	6.9	.6	A45983
Zook	-	M		3	2,220	2,380	2,470	8.1	.6	A99252 to A99254
Roseglen										
Roseglen	-	M		3	2,360	2,400	2,450	9.7	.9	A99771 to A99773
Underwood										
Figenskau	-	T	4-inch lump		2,500	2,580	2,620	8.0	.8	C68970
Do.	-	T	4- by 1-1/2-inch		2,110	2,230	2,320	9.7	.8	C68971
Do.	-	T	1-1/2- by 1/2-inch		2,310	2,360	2,410	11.1	.9	C68972
Do.	-	T	1/2-inch by 0		2,130	2,180	2,220	14.8	.9	C68973
Underwood	-	T	12- by 6-inch		2,470	2,570	2,620	7.5	.6	D73284
Do.	-	T	6- by 3-inch		2,230	2,470	2,520	8.2	.9	D73285
Do.	-	T	3- by 2-inch		2,230	2,470	2,520	10.7	1.1	D73286
Do.	-	T	2- by 3/4-inch		2,360	2,430	2,470	11.7	1.0	D73287
Do.	-	T	3/4-inch by 0		2,080	2,180	2,210	14.7	.9	D73288
Mercer County										
Beulah										
Beulah	Beulah-Zap	M		1	2,170	2,260	2,740	11.1	1.1	B77892
Indian Head	-	T	8- by 3-1/2-inch		2,440	2,500	2,530	8.4	.8	D99158
Do.	-	T	1-1/2- by 3/4-inch		2,430	2,490	2,540	9.4	.9	D99159
Do.	-	T	2-inch by 0		2,260	2,360	2,420	11.4	.9	D99160
Knife River	Beulah-Zap	M		3	2,430	2,450	2,490	9.0	1.1	A88707 to A88709
Do.	Knife River	T	10- by 4-inch		2,400	2,470	2,590	10.0	1.3	D99161
Do.	do.	T	4- by 2-inch		2,220	2,450	2,490	10.8	1.1	D99162
Do.	do.	T	2- by 1-inch		2,050	2,230	2,490	12.6	1.6	D99163
Do.	do.	T	1-inch by 0		2,020	2,140	2,230	13.6	1.4	D99164
Do.	do.	T	2-inch by 0		2,210	2,300	2,460	11.0	1.2	D99165
Maxley	Beulah-Zap	M		1	2,180	2,310	2,340	10.3	.8	D3289
Hazen										
Dakota Star	-	T	10- by 4-inch		2,470	2,500	2,540	8.2	.9	D99765
Do.	-	T	2-inch by 0		2,440	2,520	2,570	7.7	.8	D99766
Do.	-	T	Run-of-mine		2,470	2,490	2,530	8.8	.9	D99767
Zap										
Gunderson	Zap	M		1	2,000	2,060	2,170	11.8	2.0	A45882
Kamins	-	T	10-inch lump		2,190	2,220	2,300	10.5	2.5	B91867
Do.	-	T	10- by 3-inch		2,030	2,120	2,210	9.8	.9	B91868
Do.	-	T	3- by 2-inch		2,020	2,120	2,200	11.8	1.3	B91869
Do.	-	T	2-inch by 0		2,050	2,080	2,170	13.8	.9	B91870
Lucky Strike	Beulah-Zap	M		3	2,200	2,290	2,430	8.3	.7	A88703 to A88705
Pratt	-	M		1	2,010	2,110	2,240	9.3	1.0	A3131
Republic	Zap	M		1	2,420	2,450	2,460	6.6	.6	A45883
Morton County										
Almont										
Carbon	-	M		2	2,340	2,480	2,550	9.6	2.0	C68329 and C68330

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Glen Ullin										
Richter	-	T	1-1/4-inch lump		2,470	2,490	2,520	10.6	1.8	C69052
Do.	-	T	1-1/4- by 1/4-inch		2,470	2,500	2,530	19.4	1.8	C69053
Do.	-	T	1/4-inch by 0		2,050	2,100	2,340	31.7	1.3	C69054
Spring Valley	-	M		1	2,270	2,300	2,320	10.2	2.5	A45878
Hebron										
Harmish	-	M		1	2,070	2,260	2,290	12.0	2.7	A3132
Do.	-	M		1	2,100	2,120	2,170	7.8	.9	A45879
New Salem										
Flemmer	-	T	2-inch lump		2,310	2,600	2,680	7.6	1.0	D73289
Do.	-	T	2- by 1/2-inch		2,080	2,310	2,360	11.3	1.6	D73290
Do.	-	T	1/2-inch by 0		2,000	2,160	2,210	15.1	1.4	D73291
Mountrail County										
White Earth										
Porger	-	M		1	2,020	2,050	2,080	10.8	1.1	A46202
Timmel	-	T	2-inch lump		2,380	2,420	2,500	6.4	.4	C65109
Oliver County										
Center										
Hagel	-	M		1	2,340	2,380	2,420	9.9	.9	D80824
Do.	-	T	1-1/2-inch lump		2,360	2,470	2,520	9.0	1.1	D73296
Do.	-	T	1-1/2- by 3/8-inch		1,970	2,150	2,180	13.3	1.7	D73297
Do.	-	T	3/8-inch by 0		2,050	2,100	2,150	16.8	1.4	D73298
Schenk	-	M		1	2,490	2,600	2,700	6.6	.6	D80823
Chris Schmidt	-	M		1	2,390	2,530	2,630	6.1	.7	D80825
Prospect	-	M		1	2,100	2,490	2,540	8.5	1.4	D55179
Do.	-	M		1	2,050	2,180	2,260	6.8	.9	D55176
Do.	-	M		1	2,110	2,180	2,420	12.3	3.3	D55175
Stark County										
Dickenson										
Binek	-	M		1	2,500	2,550	2,570	8.9	1.1	C66587
Pittsburg	Pittsburg	M		1	2,000	2,100	2,140	12.6	1.5	A45880
Ward County										
Burlington										
Burlington Co-Operative	-	M		3	2,150	2,210	2,490	19.0	.3	B45878, B45880 and B45882
Do.	-	T	8-inch lump		2,160	2,220	2,400	9.6	.4	B89444
Do.	-	T	8- by 4-inch		2,130	2,180	2,360	15.3	.3	B89445
Do.	-	T	4- by 1-inch		2,110	2,170	2,330	19.9	.3	B89446
Do.	-	T	1- by 1/4-inch		2,410	2,450	2,530	23.7	.3	B89447
Do.	-	T	1/4-inch by 0		2,380	2,440	2,620	27.7	.5	B89448
Kenmare										
Murray	-	T	1-1/2-inch lump		2,080	2,180	2,380	9.4	.7	B89540
Do.	-	T	1-1/2- by 1/4-inch		2,020	2,110	2,350	17.7	1.1	B89541
Do.	-	T	1/4-inch by 0		1,970	2,090	2,290	22.5	1.1	B89542
Smith	-	M		1	2,050	2,100	2,180	8.9	.6	A46067
Minot										
Quality	-	M		3	2,120	2,240	2,390	15.8	.2	A99902 to A99904
Sawyer										
Atz	-	T	2-inch lump		2,330	2,360	2,420	7.9	.3	B85272
Do.	-	T	2-inch by 0		2,360	2,410	2,500	9.6	.4	B85273
Leeson	-	T	4-inch lump		2,380	2,430	2,530	8.0	.5	B85074
Do.	-	T	4- by 2-inch		2,470	2,510	2,570	9.0	.4	B85075
Do.	-	T	2- by 1/2-inch		2,310	2,360	2,450	10.4	.6	B85076
Do.	-	T	1/2-inch by 0		2,070	2,170	2,470	22.2	.7	B85077
Miller	-	T	2-1/2-inch lump		2,410	2,470	2,540	6.7	.3	C64205

1 M, mine sample; T, tipple sample 2 W, washed

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1	2	3	4	5	6	7	8	9	10	11
NORTH DAKOTA (Con.)										
Ward County (Con.)										
Sawyer										
Miller	-	T	2-1/2- by 1-1/2-inch		2,190	2,280	2,430	9.0	.4	C64206
Do.	-	T	1-1/2- by 3/4-inch		2,080	2,250	2,360	10.3	.4	C64207
Do.	-	T	3/4- by 3/8-inch		2,200	2,240	2,310	13.7	.4	C64208
Do.	-	T	3/8-inch by 0		2,190	2,210	2,310	14.6	.4	C64209
P & M	-	T	1-1/2-inch lump		2,370	2,460	2,550	6.7	.4	B88695
Quality Lignite	-	T	2-1/2-inch lump		2,430	2,540	2,570	7.0	.3	C64350
Do.	-	T	2-1/2- by 1-1/2-inch		2,140	2,290	2,360	10.1	.3	C64351
Do.	-	T	1-1/2- by 3/8-inch		2,150	2,300	2,380	10.7	.2	C64352
Do.	-	T	3/8-inch by 0		2,210	2,240	2,290	13.3	.4	C64353
Vix	Coteau	T	2-1/2-inch lump		2,310	2,380	2,430	6.8	.3	C64346
Do.	do.	T	2-1/2- by 1-3/4-inch		2,240	2,310	2,370	8.2	.3	C64347
Do.	do.	T	1-3/4- by 1/4-inch		2,250	2,310	2,370	8.2	.4	C64348
Do.	do.	T	1/4-inch by 0		2,090	2,130	2,250	10.8	.7	C64349
West Side	do.	T	2-inch lump		2,180	2,250	2,320	7.8	.3	C64761
Do.	do.	T	2- by 1-1/4-inch		2,050	2,220	2,350	10.7	.3	C64762
Do.	do.	T	1-1/4- by 1/4-inch		2,100	2,170	2,220	12.7	.4	C64763
Do.	do.	T	1/4-inch by 0		2,060	2,160	2,230	14.5	.6	C64764
Velva (McHenry County)										
Velva	-	M		3	2,360	2,440	2,500	8.1	.7	A45984 to A45986
Do.	-	T	8- by 6-inch		2,450	2,570	2,620	6.7	.4	D73065
Do.	-	T	6- by 2-inch		2,520	2,570	2,620	8.8	.4	D73066
Do.	-	T	2-inch by 0		2,210	2,260	2,310	13.0	.7	D73067
Williams County										
Grenora										
Folvag	-	M		1	2,470	2,500	2,530	8.7	.6	C65221
Thull & Wheeler	-	M		1	2,390	2,420	2,450	8.5	.7	A46203
Hanks										
Anderson	-	M		1	2,300	2,340	2,450	8.7	.4	C64842
Blue Vein	Blue Vein	T	Run-of-mine		2,370	2,470	2,570	10.9	1.2	C64836
Eide	Hanks	M		1	2,150	2,390	2,420	9.8	.8	A46063
Hanks	do.	M		1	2,100	2,180	2,300	9.5	.5	A46062
Hanks Coal Company	-	M		1	2,420	2,450	2,470	8.8	.7	C63608
Ray										
M & M	-	T	8-inch lump		2,510	2,530	2,550	8.3	.7	C65110
Do.	-	T	8- by 4-inch		2,340	2,380	2,410	9.8	.6	C65111
Do.	-	T	4- by 1-1/2-inch		2,140	2,180	2,270	11.2	.6	C65112
Do.	-	T	1-1/2- by 1/2-inch		2,190	2,230	2,330	14.8	.7	C65113
Do.	-	T	1/2-inch by 0		2,180	2,220	2,270	17.2	.9	C65114
Wheelock										
Cedar Coulee No. 2	-	T	2-inch lump		2,120	2,150	2,190	8.5	.6	C65108
Williston										
Avoca	-	T	1-inch lump		2,300	2,420	2,470	8.1	1.1	B91446
Do.	-	T	8-inch lump		2,160	2,260	2,360	8.7	1.0	C65115
Do.	-	T	8- by 1-inch		2,100	2,190	2,270	8.6	1.0	C65116
Do.	-	T	1- by 1/2-inch		2,060	2,080	2,150	13.4	1.0	C65117

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Do.	-	T	1/2-inch by 0		2,060	2,100	2,360	16.4	.8	C65118
Black Diamond	-	M		1	2,330	2,380	2,440	7.3	.6	C65119
Delaney	-	M		1	2,120	2,140	2,180	8.4	.9	A46065
Ference	-	M		1	1,990	2,040	2,060	11.2	.8	A46061
Holland	-	T	2-inch lump		2,280	2,320	2,370	8.3	.7	C64835
Do.	-	M		3	2,270	2,370	2,400	7.4	.6	C65134 to C65136
Busebye No. 2	Middle Williston	M		1	1,990	2,050	2,110	10.9	1.3	A46201
Do.	Lower Williston	M		1	2,000	2,090	2,160	9.0	3.6	A34102
Ray	-	T	1-inch lump		2,160	2,210	2,310	8.2	.8	B91445
Reclamation	-	M		1	1,860	1,940	1,990	15.5	1.6	A3916
Do.	Middle Williston	M		1	2,130	2,140	2,160	8.0	.9	A46204
Riverside	Upper Williston	M		1	2,150	2,240	2,300	8.6	.9	A46064
Square Deal	-	T	2-inch lump		2,330	2,380	2,440	7.6	.9	C64959
Standard	-	T	do.		2,070	2,090	2,140	11.2	1.1	C64840
Do.	-	T	2- by 1-inch		1,980	2,070	2,210	21.0	1.5	C64841
Williston View	-	T	2-inch lump		2,350	2,420	2,510	7.3	.7	C64960
Do.	-	T	2- by 1-inch		2,090	2,140	2,190	9.7	.8	C64961

OHIO (Con.)

Athens County										
Carbondale										
Carbondale No. 2	No. 6	T	5-inch lump		2,560	2,620	2,780	5.4	1.2	B50222
Do.	do.	T	5- by 2-inch		2,200	2,550	2,670	5.9	1.5	B50223
Do.	do.	T	2-inch by 0		2,240	2,470	2,690	10.0	1.6	B50224
Chauncey										
Gem No. 255	do.	T	5-inch lump		2,610	2,720	2,910	7.4	.9	E64422
Do.	do.	T	5- by 3-inch (W)		2,820	2,890	2,910+	7.0	.7	E64423
Do.	do.	T	3- by 2-inch (W)		2,840	2,910+	-	7.6	.8	E64424
Do.	do.	T	2- by 1-inch (W)		2,840	2,910+	-	9.2	.8	E64425
Do.	do.	T	1- by 1/4-inch (W)		2,600	2,710	2,880	10.5	1.1	E64426
Do.	do.	T	1-3/4-inch by 0 (W)		2,440	2,530	2,730	13.1	1.0	E64427
New York No. 25	do.	T	8- by 2-inch (W)		2,730	2,780	2,870	8.3	1.0	D40034
Do.	do.	T	2- by 1-inch (W)		2,730	2,800	2,890	7.4	1.0	D40035
Do.	do.	T	1- by 3/8-inch (W)		2,750	2,820	2,890	7.6	.7	D40036
Do.	do.	T	3/8-inch by 0		2,470	2,540	2,680	13.3	1.3	D40037
Sunday Creek No. 7	No. 7	T	2-inch by 0		1,950	2,240	2,470	11.6	2.7	B15895
Corning										
Sunday Creek No. 28	do.	T	5-inch lump		2,030	2,150	2,440	6.2	2.6	B11541
Do.	do.	T	5- by 2-inch		1,950	2,150	2,440	7.1	2.5	B11542
Do.	do.	T	2-inch by 0		2,030	2,160	2,430	12.1	3.0	B11543
Sunday Creek No. 69	do.	T	5-inch lump		2,030	2,210	2,450	5.8	2.6	B11419
Do.	do.	T	5- by 2-inch		1,950	2,150	2,420	7.2	2.9	B11420
Do.	do.	T	2-inch by 0		1,990	2,140	2,390	13.1	2.9	B11421
Sunday Creek No. 87	No. 6	T	5-inch lump		2,750	2,810	2,910+	7.0	.8	B11475
Do.	do.	T	5- by 2-inch		2,660	2,740	2,840	7.0	.9	B11476
Do.	do.	T	2-inch by 0		2,370	2,570	2,690	10.0	1.2	B11477
Floodwood										
Glen Ebon	No. 7	T	Run-of-mine		2,600	2,650	2,790	13.2	2.0	C30203
Do.	do.	T	do.		1,990	2,250	2,420	16.8	4.7	C70267
Glouster										
Buckeye Gem	"A"	T	6-inch lump		1,940	2,000	2,420	6.0	4.1	D42082
Do.	do.	T	6-inch by 0		1,930	1,990	2,160	9.4	5.5	D42083
George M. Jones No. 255	No. 6	T	5-inch lump		2,650	2,700	2,860	7.3	1.1	B33391
Do.	do.	T	5- by 3-inch		2,810	2,870	2,880+	7.0	1.1	B33392
Do.	do.	T	3- by 1-1/4-inch		2,790	2,830	2,880+	9.3	1.4	B33393
Do.	do.	T	1-1/4-inch by 0		2,530	2,620	2,860	13.6	1.6	B33394
George M. Jones No. 267	do.	T	5-inch lump		2,520	2,610	2,820	8.3	.7	B50179
Do.	do.	T	5- by 2-inch		2,380	2,550	2,710	8.3	1.9	B50180
Do.	do.	T	2-inch by 0		2,050	2,290	2,570	12.3	2.5	B50181

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Athens County (Con.)										
Hocking										
Eclipse	No. 6	T	5-inch lump		2,230	2,400	2,690	8.3	1.8	C11091
Do.	do.	T	5- by 1-inch (W)		2,510	2,560	2,710	10.2	1.6	C11092
Do.	do.	T	1- by 3/8-inch (W)		2,530	2,570	2,720	13.5	1.7	C11093
Do.	do.	T	3/8-inch by 0 (W)		2,400	2,520	2,700	15.5	1.7	C11094
Jacksonville										
Drydock No. 255	do.	T	3-inch lump		2,800	2,870	2,910+	6.6	.7	D40321
Do.	do.	T	3- by 1-inch (W)		2,600	2,660	2,730	9.2	1.3	D40322
Do.	do.	T	1- by 3/8-inch (W)		2,570	2,650	2,710	9.3	1.4	D40323
Do.	do.	T	3/8-inch by 0		2,360	2,520	2,680	13.6	1.2	D40324
Kimberly										
Kimberly	do.	T	5-inch lump		2,450	2,500	2,660	5.5	1.6	D40993
Do.	do.	T	5- by 2-inch (W)		2,420	2,520	2,660	6.6	2.2	D40994
Do.	do.	T	2- by 1-inch (W)		2,420	2,500	2,660	7.7	1.7	D40995
Do.	do.	T	1- by 1/8-inch (W)		2,470	2,570	2,700	9.3	1.4	D40996
Lathrop										
Black Diamond No. 2	No. 8	T	4-inch lump		1,920	1,980	2,290	8.5	4.2	B12106
Do.	do.	T	4- by 2-inch		1,950	2,000	2,280	8.1	3.9	B12107
Do.	do.	T	2-inch by 0		2,000	2,040	2,270	11.1	3.6	B12108
Luhrig										
Luhrig No. 2	No. 6	T	5-inch lump		2,110	2,450	2,580	7.1	1.6	B11273
Do.	do.	T	5- by 2-inch		2,100	2,480	2,600	8.1	1.7	B11274
Do.	do.	T	2-inch by 0		2,100	2,400	2,540	11.9	1.8	B11275
Millfield										
Millfield No. 6	do.	T	5-inch lump		2,500	2,550	2,680	8.3	1.6	B50333
Do.	do.	T	5- by 2-inch		2,350	2,530	2,710	8.9	1.8	B50334
Do.	do.	T	2- by 1-1/4-inch		2,550	2,610	2,770	11.1	2.1	B50335
Do.	do.	T	1-1/4-inch by 0		2,130	2,270	2,600	15.1	2.7	B50336
Gem No. 255	do.	T	7- by 3-inch		2,570	2,680	2,770	7.9	1.2	E41742
Do.	do.	T	3- by 1-inch (W)		2,660	2,760	2,820	8.9	1.1	E41743
Do.	do.	T	1- by 3/8-inch (W)		2,550	2,690	2,820	8.3	1.2	E41744
Do.	do.	T	3/8-inch by 0		2,480	2,540	2,760	12.9	1.1	E41745
Sunday Creek No. 6	do.	M		6	2,350	2,540	2,680	6.6	.9	A66120, A66121, A66124, A66235 to A66237
Do.	do.	T	5-inch lump		2,780	2,900	2,940	7.1	.7	B15896
Do.	do.	T	5- by 2-inch		2,600	2,720	2,810	7.6	.9	B15897
Do.	do.	T	2-inch by 0		2,530	2,660	2,760	11.2	1.0	B15898
Sunday Creek No. 28	No. 7	T	5-inch lump		1,970	2,120	2,380	6.3	2.8	B15890
Do.	do.	T	5- by 2-inch		1,960	2,160	2,440	7.6	2.6	B15891
Do.	do.	T	2-inch by 0		1,960	2,210	2,470	13.0	2.8	B15892
Nelsonville										
Lick Run	No. 6	T	2-inch lump		2,210	2,500	2,600	5.7	1.5	B11383
Do.	do.	T	2- by 1-inch		2,660	2,710	2,810	10.3	1.1	B11384
Do.	do.	T	1-inch by 0		2,330	2,470	2,610	11.6	1.6	B11385
Nelsonville	do.	T	4-inch lump		2,040	2,350	2,550	7.5	1.8	C11189
Do.	do.	T	4- by 1-1/4-inch		2,510	2,580	2,690	10.8	1.4	C11190

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Do.	do.	T	1-1/4-inch by 0		2,430	2,530	2,680	14.2	1.7	C11191
Sebring	No. 7	T	Run-of-mine		1,970	2,050	2,260	10.1	5.2	D41082
Ward										
Sorrels Brothers	No. 6	M		2	2,910+	-	-	8.8	.6	D3673 and D3674
York										
Matheney	No. 7	M		3	2,070	2,240	2,560	10.6	3.4	D3676 to D3678
Belmont County										
Baileys Mills										
Millwood	No. 8	T	4-inch lump		1,940	2,040	2,370	11.2	5.3	B32654
Do.	do.	T	4-inch by 0		1,940	2,000	2,300	11.3	5.2	B32655
Barnesville										
Barnesville	do.	T	Run-of-mine		1,900	1,990	2,180	11.8	5.7	E50568
Hallett No. 1	do.	T	do.		1,940	2,230	2,420	11.5	5.3	D67879
Barton										
Barton	do.	T	do.		1,920	2,050	2,450	8.7	4.6	B31915
Godaway	do.	T	6-inch lump		1,940	1,980	2,410	9.2	5.9	C3160
Do.	do.	T	6-inch by 0		2,000	2,080	2,380	11.6	5.2	C3161
Bellaire										
Carnegie	do.	T	4-inch lump		2,000	2,260	2,450	6.6	3.7	D68888
Do.	do.	T	4- by 2-inch (W)		2,000	2,240	2,480	6.6	3.6	D68889
Do.	do.	T	2- by 1-1/4-inch (W)		2,010	2,240	2,480	6.8	3.2	D68890
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,010	2,380	2,440	7.0	3.3	D68891
Do.	do.	T	3/4-inch by 0		1,970	2,110	2,380	9.3	4.2	D68892
Clean Coal	do.	T	4-inch lump		1,940	2,130	2,440	7.9	4.4	D45060
Do.	do.	T	4- by 1-1/4-inch		2,000	2,150	2,440	9.8	3.8	D45061
Do.	do.	T	1-1/4- by 3/4-inch		2,080	2,180	2,470	11.7	4.3	D45062
Do.	do.	T	3/4-inch by 0		1,950	2,070	2,340	12.0	4.2	D45063
Powhatan No. 3	do.	T	4- by 1-1/4-inch (W)		1,980	2,090	2,340	8.9	3.9	E15073
Do.	do.	T	1-1/4-inch by 0 (W)		2,020	2,190	2,360	15.9	3.8	E15074
Schick	do.	T	Run-of-mine		1,920	2,100	2,320	10.1	4.5	B13353
Do.	do.	T	2-inch lump		1,910	2,090	2,370	9.4	4.4	B13354
Do.	do.	T	2-inch by 0		1,910	2,090	2,280	10.7	4.2	B13355
Blaine										
Blaine	do.	T	5-inch lump		1,950	2,010	2,330	8.7	4.8	E15436
Do.	do.	T	5- by 2-inch (W)		1,950	2,010	2,310	7.9	4.2	E15437
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,140	2,470	8.3	3.7	E15438
Do.	do.	T	1-1/4- by 1/2-inch (W)		1,970	2,070	2,380	9.7	4.2	E15439
Do.	do.	T	1/2-inch by 0 (W)		2,000	2,090	2,240	15.0	4.1	E15440
Crescent										
Lois	do.	T	Run-of-mine		1,970	2,140	2,420	9.9	4.5	B66824
Fairpoint										
Bradford	do.	T	2-inch lump		1,990	2,150	2,410	8.9	3.6	B66822
Do.	do.	T	2-inch by 0		2,000	2,140	2,390	12.0	3.5	B66823
Bradford No. 1	No. 8 A	T	Run-of-mine		2,130	2,270	2,470	14.0	3.3	C29639
Bradford No. 2	No. 9	T	do.		2,340	2,470	2,540	12.3	2.8	D46148
Camel Run	No. 8	T	5-inch lump		1,970	2,030	2,420	9.3	4.9	C3251
Do.	do.	T	5- by 3/4-inch		1,990	2,080	2,370	11.1	3.8	C3252
Do.	do.	T	3/4-inch by 0		1,980	2,030	2,430	10.9	3.6	C3253
Flushing										
Rice No. 1	do.	T	Run-of-mine		1,990	2,020	2,380	12.3	4.9	C2907
Munroe	No. 8 A	T	do.		2,460	2,540	2,610	11.4	1.9	E39243
Holloway										
June	No. 8	T	do.		2,100	2,150	2,420	12.9	2.0	C4167
Virginian No. 44	do.	T	do.		1,900	1,960	2,220	10.2	4.2	B13352
Jacobsburg										
Norton No. 3	do.	T	1-1/4-inch lump		1,940	2,010	2,440	8.2	4.4	E62560
Do.	do.	T	1-1/4- by 3/8-inch		1,940	2,010	2,440	7.4	4.2	E62561
Do.	do.	T	3/8-inch by 0		1,930	2,000	2,310	14.2	5.6	E62562
Lafferty										
Lafferty No. 6	do.	T	1-inch lump		1,920	2,080	2,370	9.1	4.6	B13864

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 Fusibility of Ash of United States Coals (Con.)

State, county, town, and mine	Bed	[illegible] [1]	Size of coal [2]	[illegible]	Fusibility of Ash [illegible]	Fusibility of Ash [illegible]	Fusibility of Ash [illegible]	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Belmont County (Con.)										
Lafferty										
Lafferty No. 6	No. 8	T	4- by 2-inch		1,930	2,080	2,330	8.6	4.1	B13865
Do.	do.	T	1-inch by 0		1,920	2,030	2,210	10.6	4.2	B13866
Virginia Hill	do.	T	Run-of-mine		1,960	2,030	2,370	11.9	5.2	C3006
Martins Ferry										
Florence	do.	T	4-inch lump		1,940	2,030	2,360	7.0	4.3	D45702
Do.	do.	T	4- by 1-1/4-inch		2,000	2,150	2,380	10.1	4.3	D45703
Do.	do.	T	1-1/4- by 3/4-inch		2,050	2,130	2,360	10.8	4.2	D45704
Do.	do.	T	3/4-inch by 0		1,970	2,050	2,360	11.1	4.1	D45705
Funari	do.	T	4-inch lump		1,980	2,040	2,470	8.8	5.1	C2522
Do.	do.	T	4- by 2-inch		1,980	2,040	2,380	9.9	4.5	C2523
Do.	do.	T	2- by 7/8-inch		2,020	2,120	2,400	9.5	3.8	C2524
Do.	do.	T	7/8-inch by 0		2,020	2,080	2,320	10.1	3.7	C2525
Gaylord	do.	T	Run-of-mine		1,920	1,980	2,200	9.2	4.7	B13203
Laughlin No. 1	do.	T	do.		2,020	2,150	2,410	11.5	4.7	C2547
Nixon	do.	T	4-inch lump		1,950	2,030	2,340	8.3	4.6	D45910
Do.	do.	T	4- by 1-1/4-inch		1,970	2,080	2,310	9.4	3.8	D45911
Do.	do.	T	1-1/4- by 3/4-inch		1,920	2,030	2,310	9.9	3.5	D45912
Do.	do.	T	3/4- by 1/2-inch		2,000	2,100	2,420	8.9	3.5	D45913
Do.	do.	T	1/2-inch by 0		2,000	2,100	2,420	9.6	3.6	D45914
Patty No. 2	do.	T	2-inch lump		1,980	2,070	2,430	9.2	4.0	C2543
Do.	do.	T	2- by 1-inch		2,030	2,220	2,430	9.3	3.1	C2544
Do.	do.	T	1- by 1/2-inch		2,030	2,210	2,400	10.0	3.2	C2545
Do.	do.	T	1/2-inch by 0		2,030	2,140	2,400	11.9	3.4	C2546
Maynard										
Johnson	do.	T	Run-of-mine		1,980	2,110	2,370	9.9	3.0	C4460
Neffs										
Willow Grove No. 10	do.	M		3	1,950	2,110	2,410	10.1	3.5	B50817, B50893 and B50894
Do.	do.	T	7-inch lump		2,000	2,050	2,470	8.4	4.9	D45489
Do.	do.	T	7- by 1-1/2-inch (W)		1,970	2,030	2,360	8.7	4.5	D45490
Do.	do.	T	1-1/2-inch by 28-mesh (W)		1,970	2,050	2,420	7.7	4.0	D45491
Powhatan										
Captina No. 2	do.	T	Run-of-mine		1,970	2,050	2,360	9.8	4.9	E39464
Powhatan	do.	T	do.		1,920	2,050	2,480	9.7	4.8	B31916
Do.	do.	T	6- by 1-1/4-inch (W)		1,950	2,170	2,500	7.6	4.1	B31917
Do.	do.	T	1-1/4- by 3/8-inch (W)		1,920	2,090	2,490	7.1	3.6	B31918
Do.	do.	T	3/8-inch by 0		1,940	2,020	2,380	11.1	4.6	B31919
Saint Clairsville										
Saginaw No. 1	do.	T	2-inch lump (W)		1,940	2,030	2,310	9.0	5.0	E50007
Do.	do.	T	2- by 3/8-inch (W)		1,960	2,010	2,280	9.9	4.7	E50008
Do.	do.	T	3/8-inch by 0		1,940	2,010	2,110	11.1	5.0	E50009
Shadyside										
Webb	do.	T	Run-of-mine		2,000	2,070	2,420	10.7	4.3	C2733
Speidel										
Bradley	do.	T	do.		2,010	2,210	2,420	11.8	4.4	C73542

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Yorkville										
Dorothy	do.	T	5-inch lump (W)	1,960	2,030	2,420	8.3	4.5	D45412
Do.	do.	T	5- by 3-inch (W)	1,940	2,100	2,420	9.6	3.8	D45413
Do.	do.	T	3- by 1-1/4-inch (W)	1,940	2,110	2,420	8.8	3.5	D45414
Do.	do.	T	1-1/4-inch by 0	2,070	2,200	2,480	15.6	3.4	D45415
Carroll County									
Leesville									
Leesville	No. 7	T	4- by 2-inch (W)	1,970	2,080	2,420	5.9	2.2	D51052
Do.	do.	T	2- by 1-1/4-inch (W)	2,080	2,240	2,510	7.1	1.6	D51053
Do.	do.	T	1-1/4- by 3/8-inch (W)	2,110	2,220	2,610	6.2	1.8	D51054
Do.	do.	T	3/8-inch by 0 (W)	2,130	2,310	2,520	8.6	1.7	D51055
Magnolia									
James	No. 5	T	Run-of-mine	1,950	2,140	2,410	9.9	4.6	C8512
Magnolia	No. 6	T	4-inch lump	2,010	2,120	2,450	10.3	4.0	B43339
Do.	do.	T	4- by 1-1/4-inch	1,970	2,120	2,450	9.5	3.6	B43340
Do.	do.	T	1-1/4- by 3/4-inch	1,980	2,080	2,460	9.3	4.0	B43341
Do.	do.	T	3/4-inch by 0	2,020	2,100	2,200	10.2	4.2	B43342
Do.	do.	T	1-1/4-inch by 0	1,950	2,080	2,310	9.8	4.0	B43343
Seeman	No. 5	T	Run-of-mine	2,010	2,200	2,590	9.9	2.7	B32445
Malvern									
Thoma	do.	T	4-inch lump	2,170	2,280	2,570	8.5	2.7	C8679
Do.	do.	T	4- by 1-1/2-inch	2,040	2,240	2,490	8.7	3.3	C8680
Do.	do.	T	1-1/2- by 1/2-inch	1,990	2,060	2,410	12.3	5.0	C8681
Do.	do.	T	1/2-inch by 0	2,010	2,080	2,290	16.9	5.3	C8682
Salineville (Columbiana Co.)									
Sterling	No. 7	T	4-inch lump	2,110	2,310	2,520	6.5	1.6	C8509
Do.	do.	T	4- by 1-3/4-inch	2,130	2,430	2,600	6.9	1.4	C8510
Do.	do.	T	1-3/4-inch by 0	2,430	2,520	2,740	13.3	1.5	C8511
Columbiana County									
Elkton									
Padurean	No. 6	T	5/8-inch lump	1,980	2,170	2,510	8.3	3.6	C4839
Do.	do.	T	5/8-inch by 0	1,980	2,180	2,510	11.9	3.9	C4840
Lisbon									
A.B.C.	do.	T	Run-of-mine	1,960	2,140	2,450	8.8	3.7	D67442
Art Evans Farm	No. 5	T	do.	1,980	2,060	2,230	13.1	7.3	E53657
Buckeye	No. 6	T	do.	2,030	2,140	2,380	12.6	2.9	C5109
Hart	No. 7	T	2-inch lump	2,020	2,140	2,410	9.2	2.2	C5106
Do.	do.	T	2- by 1-1/2-inch	2,080	2,220	2,480	10.0	1.9	C5107
Do.	do.	T	1-1/2-inch by 0	2,020	2,130	2,370	13.5	3.1	C5108
Industrial Mining & Engineering Company	No. 6	T	Run-of-mine	2,090	2,310	2,470	10.6	2.4	D68893
Kay No. 1	No. 7	T	do.	1,990	2,110	2,290	19.7	8.7	D67443
Kay No. 2	do.	T	do.	1,900	2,110	2,390	15.6	2.6	D85820
Pine Hollow	No. 6	T	do.	2,080	2,210	2,530	8.0	1.3	C5110
Rogers									
Strochecker	do.	T	do.	1,940	2,180	2,460	10.1	2.5	E16374
Salem									
Brookwood	No. 3	T	2-1/2-inch lump	2,010	2,030	2,340	8.3	5.4	C4712
Do.	do.	T	2-1/2- by 1-inch	2,000	2,020	2,260	8.7	4.7	C4713
Do.	do.	T	1- by 1/2-inch	2,000	2,020	2,260	8.6	4.1	C4714
Do.	do.	T	1/2-inch by 0	1,990	2,020	2,280	9.5	3.8	C4715
Callahan	No. 6	T	3-inch lump	1,990	2,020	2,380	9.5	3.7	C4919
Do.	do.	T	3- by 1-1/4-inch	2,020	2,200	2,470	9.3	2.9	C4920
Do.	do.	T	1-1/4- by 3/4-inch	2,010	2,180	2,490	9.5	3.1	C4921
Do.	do.	T	3/4- by 3/8-inch	2,000	2,200	2,470	10.7	3.4	C4922
Do.	do.	T	3/8-inch by 0	1,990	2,070	2,410	13.7	4.0	C4923
Teegarden									
Betty	do.	T	Run-of-mine	2,430	2,540	2,700	6.6	.9	B33429

1/ M mine sample; T tipple sample 2/ W washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Columbiana County (Con.)										
Wellsville										
Swearinger	No. 6	T	4-inch lump		2,020	2,110	2,570	10.5	5.2	B32307
Do.	do.	T	4- by 2-inch		2,000	2,150	2,590	11.2	4.8	B32308
Do.	do.	T	2- by 1-1/4-inch		1,970	2,160	2,480	11.4	4.5	B32309
Do.	do.	T	1-1/4- by 3/4-inch		1,940	2,110	2,550	10.4	4.2	B32310
Do.	do.	T	3/4- by 1/4-inch		1,960	2,100	2,530	13.1	5.5	B32311
Do.	do.	T	1/4-inch by 0		2,030	2,110	2,610	15.3	7.1	B32312
Coshocton County										
Bliss field										
Bernhardt	do.	T	Run-of-mine		1,920	2,180	2,420	11.5	3.9	C70770
Coshocton										
Adams Mills	do.	T	4-inch lump		2,310	2,420	2,470	2.2	1.7	D67335
Do.	do.	T	4- by 2-inch		2,100	2,420	2,540	3.0	1.9	D67336
Do.	do.	T	2- by 1-1/4-inch		2,360	2,420	2,470	3.5	1.9	D67337
Do.	do.	T	1-1/4- by 3/4-inch		2,360	2,420	2,470	4.2	1.9	D67338
Do.	do.	T	3/4-inch by 0		1,940	2,050	2,100	6.8	2.1	D67339
Do.	do.	T	5-inch lump		1,980	2,090	2,370	2.8	2.5	E41244
Do.	do.	T	5-inch by 0		1,940	2,070	2,350	8.8	4.4	E41245
Barnes No. 7	do.	T	4-inch lump		1,950	2,020	2,250	4.7	3.4	C9113
Do.	do.	T	4- by 2-inch		1,940	2,100	2,520	6.1	3.6	C9114
Do.	do.	T	2-inch by 0		2,030	2,080	2,420	11.6	4.8	C9115
Hutt	do.	T	5-inch lump		2,050	2,210	2,390	5.4	4.7	D85628
Do.	do.	T	5- by 2-inch		1,940	2,080	2,340	8.5	5.0	D85629
Do.	do.	T	2-inch by 0		1,870	2,110	2,510	11.7	4.4	D85630
Jenkins	do.	T	Run-of-mine		2,000	2,070	2,360	6.6	3.0	E41748
Sun	do.	T	3-inch lump		2,000	2,080	2,260	5.5	3.5	C9203
Do.	do.	T	3- by 2-inch		1,980	2,170	2,600	9.1	4.4	C9204
Do.	do.	T	2-inch by 0		1,990	2,130	2,350	11.8	4.4	C9205
Willow Brook	do.	T	Run-of-mine		2,000	2,040	2,320	5.1	3.1	E14214
Do.	do.	T	1-1/8- by 3/8-inch		1,970	2,040	2,210	5.9	3.3	E14215
Do.	do.	T	2- by 1-1/4-inch		2,100	2,160	2,410	5.5	2.3	E50572
Do.	do.	T	1-1/4- by 3/8-inch		2,130	2,230	2,420	5.9	4.1	E50573
West Lafayette										
Wiggins & Brownfield	do.	T	3-inch lump		1,970	2,110	2,310	4.4	3.3	C9198
Do.	do.	T	3- by 2-inch		1,950	2,020	2,300	8.0	4.1	C9199
Do.	do.	T	2- by 1-1/4-inch		1,960	2,080	2,350	9.4	3.9	C9200
Do.	do.	T	1-1/4- by 3/4-inch		1,980	2,130	2,340	11.4	4.2	C9201
Do.	do.	T	3/4-inch by 0		1,980	2,110	2,320	12.4	4.2	C9202
Gallia County										
Cheshire										
A & R	No. 8 A	T	Run-of-mine		2,090	2,300	2,580	10.8	3.7	D66487
Lone Pine	do.	T	do.		2,430	2,530	2,600	9.2	3.1	D66490
Peacock	No. 8	T	6-inch lump		2,080	2,440	2,650	6.7	2.7	D42362
Do.	do.	T	6- by 2-1/2-inch (W)		2,080	2,300	2,570	7.5	2.7	D42363

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Do.	do.	T	2-1/2-inch by 0 (W)		2,080	2,360	2,550	10.2	3.1	D42364
Do.	do.	T	1- by 1/4-inch		2,000	2,330	2,550	10.0	2.8	D42365
Poplar Ridge	No. 8 A	T	Run-of-mine		2,110	2,300	2,570	11.6	3.8	D66486
Springs	do.	T	do.		2,120	2,310	2,540	10.5	3.4	D66489
Thaxton	do.	T	do.		1,940	2,180	2,420	10.9	3.4	D66488
Walnut Ridge	No. 8	T	do.		2,140	2,450	2,570	10.7	2.3	D42579
Gallipolis										
Gallia	do.	T	do.		1,910	2,060	2,340	10.2	3.6	E54963
Guernsey County										
Barnesville										
Moonshine	do.	M		3	1,910	2,080	2,330	9.2	4.8	A32382 to A32384
Byesville										
Carol No. 2	No. 7	T	2- by 1-1/4-inch		1,990	2,340	2,450	12.0	3.4	C71566
Do.	do.	T	1-1/4-inch by 0		1,970	2,220	2,450	13.3	3.9	C71567
Cambridge										
Buckeye No. 17	do.	T	Run-of-mine		2,020	2,240	2,500	9.8	2.4	C9546
Lewis & Dixon No. 1	do.	T	1-1/4-inch lump		2,010	2,330	2,480	9.5	2.5	B66924
Do.	do.	T	1-1/4- by 1/2-inch		2,110	2,460	2,600	12.3	2.4	B66925
Do.	do.	T	1/2-inch by 0		1,970	2,240	2,460	16.1	3.9	B66926
Lewis & Dixon No. 2	do.	T	3/4-inch lump		1,980	2,190	2,450	8.9	2.8	B66962
Do.	do.	T	3/4-inch by 0		2,030	2,190	2,350	13.1	3.2	B66963
Walhonding No. 2	do.	T	Run-of-mine		2,110	2,240	2,430	8.8	2.1	B13103
Do.	do.	T	2-inch lump		2,120	2,450	2,530	7.9	2.0	B13104
Do.	do.	T	2-inch by 0		2,050	2,260	2,430	9.6	2.4	B13107
Lore City										
Black Top	do.	T	2-1/2-inch lump		2,380	2,450	2,610	7.2	1.5	B13048
Do.	do.	T	2-1/2- by 1-1/4-inch		2,380	2,450	2,610	7.7	1.5	B13049
Do.	do.	T	1-1/4-inch by 0		2,430	2,480	2,650	8.8	1.5	B13050
Pleasant City										
McFarlin	do.	T	3-inch lump		2,020	2,230	2,530	8.9	2.9	C9547
Do.	do.	T	3-inch by 0		2,020	2,230	2,510	10.7	2.7	C9548
McFarlin No. 2	do.	T	2-inch lump		2,090	2,260	2,430	8.2	2.3	E50574
Do.	do.	T	2-inch by 0		2,110	2,230	2,420	10.9	2.4	E50575
Quaker City										
Carol No. 3	No. 8	T	4- by 3/4-inch		1,950	2,040	2,320	11.5	5.2	E42575
Do.	do.	T	3/4-inch by 0		1,930	2,110	2,370	12.8	4.0	E42576
Senecaville										
Rigby	No. 7	T	2-1/2-inch lump		2,040	2,370	2,490	10.5	2.0	B13105
Do.	do.	T	2-1/2- by 1-inch		2,440	2,560	2,630	9.4	1.6	B13106
Do.	do.	T	1-inch by 0		2,050	2,220	2,380	11.2	2.3	B13108
Harrison County										
Bowerston										
Plum Run	do.	T	Run-of-mine		1,950	2,150	2,420	11.6	3.3	B32499
Cadiz										
Cadiz No. 1	No. 8	T	do.		2,000	2,080	2,310	10.9	3.8	D45909
Dale No. 2	do.	T	1-1/4-inch lump		1,970	2,100	2,400	9.6	3.7	D86155
Do.	do.	T	1-1/4- by 3/4-inch		2,070	2,380	2,510	13.7	3.5	D86156
Do.	do.	T	3/4-inch by 0		2,000	2,310	2,460	15.8	3.1	D86157
Fairpoint No. 1	No. 8 A	T	Run-of-mine		2,030	2,160	2,380	11.8	3.2	D68536
Freemont	No. 8	T	8-inch lump		2,030	2,130	2,470	8.9	5.3	E50899
Do.	do.	T	8-inch by 0		2,000	2,110	2,430	11.5	4.2	E50900
Fulton No. 3	do.	T	Run-of-mine		2,030	2,130	2,420	8.6	2.8	D47010
Healy	do.	T	do.		2,030	2,140	2,420	14.1	3.6	D47011
Nelms	No. 6	T	5-inch lump		1,970	2,080	2,420	6.8	3.2	D45064
Do.	do.	T	5- by 2-inch (W)		1,970	2,100	2,420	8.3	3.1	D45065
Do.	do.	T	2- by 1-inch (W)		2,000	2,080	2,380	7.4	3.0	D45066
Do.	do.	T	1- by 3/8-inch (W)		1,960	2,080	2,370	8.5	3.2	D45067
Do.	do.	T	3/8-inch by 0		2,030	2,050	2,310	10.8	3.5	D45068

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Harrison County (Con.)										
Duncanwood										
Wheeling Township No. 2	No. 8	T	4-inch lump		1,950	2,120	2,510	8.2	3.5	B32092
Do.	do.	T	4- by 2-inch		1,940	2,140	2,420	9.9	3.7	B32093
Do.	do.	T	2-inch by 0		1,950	2,110	2,480	12.6	3.5	B32094
Freeport										
Polen No. 13	do.	T	Run-of-mine		1,970	2,080	2,470	12.1	3.8	D85383
Georgetown										
Georgetown No. 12	do.	T	8-inch by 0		2,050	2,170	2,430	9.6	2.9	C3660
Do.	do.	T	2-inch by 0		2,010	2,140	2,410	10.7	2.7	C3661
Do.	do.	T	Run-of-mine		2,260	2,450	2,500	9.5	1.9	D46147
Germano										
Apex	do.	M		1	1,920	2,010	2,390	8.0	3.9	B31587
Do.	do.	T	1-1/2-inch lump		2,010	2,040	2,450	10.4	4.0	B41045
Do.	do.	T	1-1/2- by 3/4-inch		2,040	2,190	2,560	11.8	3.2	B41046
Do.	do.	T	3/4-inch by 0		2,030	2,100	2,470	11.6	3.2	B41047
Do.	do.	T	Run-of-mine		1,980	2,040	2,390	11.1	3.9	B41048
Do.	do.	T	2-inch by 0		2,050	2,130	2,480	12.2	3.4	B41049
Do.	do.	T	Run-of-mine		1,960	2,180	2,380	13.1	4.3	E68942
Harrisville										
Jenny	No. 9	T	Run-of-mine		2,100	2,200	2,540	13.0	2.4	E16034
Hopedale										
Dyco No. 2	No. 8	T	2-inch lump		2,000	2,180	2,470	8.0	3.1	D47007
Do.	do.	T	2- by 3/4-inch		1,970	2,050	2,420	9.9	2.7	D47008
Do.	do.	T	3/4-inch by 0		2,030	2,080	2,330	13.7	3.1	D47009
Marion	do.	T	6-inch lump		2,070	2,330	2,440	6.1	2.8	B13932
Do.	do.	T	6- by 1-1/4-inch		2,070	2,350	2,470	9.4	2.1	B13933
Do.	do.	T	1-1/4-inch by 0		2,130	2,240	2,410	12.6	2.2	B13934
Do.	do.	T	Run-of-mine		1,970	2,100	2,450	9.6	3.0	D46818
Rexford	do.	T	do.		2,060	2,220	2,330	11.0	3.1	B13598
Tuscora	do.	T	do.		1,970	2,050	2,260	19.5	5.5	D51770
Fremont No. 1	do.	T	5-inch lump		1,970	2,020	2,380	9.3	4.8	C3719
Do.	do.	T	5- by 3/4-inch		2,010	2,110	2,370	12.0	3.7	C3720
Do.	do.	T	3/4-inch by 0		2,000	2,110	2,380	12.3	3.7	C3721
Jewett										
Fulton	do.	T	Run-of-mine		2,000	2,080	2,360	12.3	4.0	C3448
Fulton No. 4	do.	T	do.		2,030	2,100	2,360	14.6	3.5	D46647
Kenwood										
Theresa	do.	T	4-inch lump		1,940	2,050	2,460	8.9	3.9	B32439
Do.	do.	T	4- by 2-inch		1,960	2,240	2,420	10.6	3.5	B32440
Do.	do.	T	2- by 3/4-inch		2,060	2,430	2,540	12.5	2.9	B32441
Do.	do.	T	3/4-inch by 0		2,040	2,360	2,600	14.4	3.0	B32442
Philadelphia Road										
Meechan	No. 7	T	2-inch lump		2,040	2,170	2,420	10.3	2.2	C7982
Do.	do.	T	2- by 1-1/4-inch		2,040	2,230	2,420	11.7	2.3	C7983
Do.	do.	T	1-1/4-inch by 0		2,040	2,110	2,370	15.4	3.4	C7984
Piedmont										
Iles	No. 8	T	Run-of-mine		2,030	2,220	2,450	12.8	3.1	D46817

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Short Creek									
Bradford No. 1	No. 9	T	do.	2,030	2,260	2,570	13.2	3.1	D45915
Hocking County									
Logan									
Tracy	No. 6	T	do.	2,000	2,150	2,500	10.6	3.6	D43821
Do.	do.	T	1-1/4- by 1/4-inch	2,030	2,130	2,420	7.5	3.1	D43822
Lost Run									
Lost Run	do.	T	5-inch lump	2,010	2,140	2,540	7.4	3.0	C11489
Do.	do.	T	5- by 2-inch	2,010	2,220	2,490	8.4	2.7	C11490
Do.	do.	T	2-inch by 0	2,130	2,450	2,570	16.2	2.7	C11491
Murray City									
Harrisburg	do.	T	Run-of-mine	2,510	2,570	2,730	11.2	2.0	C30463
Do.	do.	T	do.	2,910+	-	-	8.3	.6	C70266
Murray No. 5	do.	T	5-inch lump	2,080	2,190	2,500	8.6	2.6	C11192
Do.	do.	T	2- by 1-1/4-inch	2,040	2,300	2,530	10.7	2.4	C11193
Do.	do.	T	1-1/4- by 5/8-inch	2,100	2,220	2,490	12.6	2.5	C11194
Do.	do.	T	5/8-inch by 0	2,080	2,160	2,430	13.4	2.6	C11195
Salem Hollow No. 30	do.	T	5-inch lump	2,430	2,550	2,620	6.7	1.3	B11709
Do.	do.	T	5- by 2-inch	2,420	2,500	2,570	7.8	1.6	B11710
Do.	do.	T	2- by 1-1/4-inch	2,490	2,550	2,640	10.3	1.7	B11711
Do.	do.	T	1-1/4-inch by 0	2,090	2,310	2,550	13.8	2.0	B11712
Sunday Creek No. 5	do.	T	6-inch lump	2,100	2,400	2,570	7.4	2.0	B15921
Do.	do.	T	6- by 2-3/4-inch	2,090	2,320	2,540	7.6	2.1	B15922
Do.	do.	T	2-3/4-inch by 0	1,920	2,200	2,470	11.1	2.7	B15923
Wolfe	do.	T	4-inch lump	2,010	2,090	2,430	8.3	2.9	C11451
Do.	do.	T	4- by 2-inch	2,010	2,030	2,420	9.8	2.6	C11452
Do.	do.	T	2-inch by 0	2,060	2,200	2,480	14.2	2.9	C11453
Orbiston									
Ten X	do.	T	2-inch lump	2,010	2,140	2,470	9.4	3.3	C11449
Do.	do.	T	2-inch by 0	2,180	2,310	2,590	14.3	3.0	C11450
Orland (Vinton County)									
Cherry Ridge	No. 4 A	T	5-inch lump	2,010	2,120	2,470	12.3	6.2	C30574
Do.	do.	T	5-inch by 0	2,110	2,300	2,520	21.1	6.2	C30575
Starr									
Starr	No. 6	T	4-inch lump	2,270	2,460	2,570	5.8	1.6	C70767
Do.	do.	T	4- by 2-inch	2,460	2,570	2,680	9.6	1.7	C70768
Do.	do.	T	2-inch by 0	2,410	2,540	2,680	16.1	2.7	C70769
Holmes County									
Killbuck									
Blue Crystal	No. 7	T	1-1/2-inch lump	1,940	2,050	2,100	5.1	3.6	D67340
Do.	do.	T	1-1/2- by 3/4-inch	1,940	2,050	2,130	6.7	4.5	D67341
Do.	do.	T	3/4-inch by 0	2,000	2,050	2,080	7.8	3.2	D67342
Do.	do.	T	Run-of-mine	1,920	2,010	2,340	9.3	4.6	E52073
Jackson County									
Roads									
Broken Aro	No. 4 A	T	6-inch lump	1,940	2,130	2,500	5.4	3.3	D80475
Do.	do.	T	6- by 3-inch (W)	1,970	2,080	2,460	6.9	3.4	D80476
Do.	do.	T	3- by 1-inch (W)	2,000	2,130	2,500	8.1	3.2	D80477
Do.	do.	T	1-1/4-inch by 10-mesh (W)	2,000	2,120	2,460	8.6	3.3	D80478
Do.	do.	T	1-inch by 10-mesh (W)	2,020	2,120	2,390	10.0	3.2	D80479
Wellston									
Stroth No. 1	No. 2	T	4-inch lump	2,020	2,320	2,520	6.5	2.1	B50558
Do.	do.	T	4- by 1-1/4-inch	2,020	2,320	2,530	8.9	2.4	B50559
Do.	do.	T	1-1/4- by 1/4-inch	2,020	2,330	2,520	10.8	2.8	B50560
Wellston No. 2	do.	T	5-inch lump	2,910+	-	-	5.2	.8	B11167
Do.	do.	T	5- by 2-inch	2,910+	-	-	4.4	.8	B11168
Do.	do.	T	2-inch by 0	2,640	2,720	2,840	4.3	.8	B11169

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Jackson County (Con.)										
Wellston										
Wellston Block	No. 7	T	3-inch lump		1,940	2,140	2,440	8.2	3.7	B11079
Do.	do.	T	3- by 1/2-inch		1,940	2,060	2,440	14.0	4.4	B11080
Jefferson County										
Adena										
Norton	No. 8	T	4-inch lump		1,940	2,030	2,380	10.3	4.6	C3722
Do.	do.	T	4- by 1-1/4-inch		1,970	2,030	2,330	11.1	4.1	C3723
Do.	do.	T	1-1/4-inch by 0		1,970	2,030	2,310	11.5	3.7	C3724
Amsterdam										
Amsterdam	No. 6 A	T	2-inch lump		1,850	2,270	2,480	8.6	3.0	B13911
Do.	do.	T	4- by 2-inch		1,840	2,310	2,480	9.1	2.9	B13912
Do.	do.	T	2-inch by 0		1,890	2,190	2,410	9.6	3.2	B13913
Bergholz										
Rice	No. 5	T	6-inch lump		2,200	2,390	2,570	7.3	2.1	B13716
Do.	do.	T	6- by 2-inch		2,050	2,220	2,470	8.7	2.4	B13717
Do.	do.	T	2-inch by 0		2,060	2,150	2,380	10.9	2.4	B13718
Bloomingdale										
Sidney	No. 8	T	Run-of-mine		2,180	2,260	2,470	11.8	1.5	C3957
Bradley										
Crow Hollow No. 1	do.	T	4-inch lump		1,900	2,170	2,360	6.9	3.1	B13391
Do.	do.	T	4- by 1-1/4-inch		1,980	2,170	2,350	9.6	3.0	B13392
Do.	do.	T	1-1/4-inch by 0		1,880	2,190	2,280	10.7	3.1	B13393
Crow Hollow No. 2	do.	T	5-inch lump		1,980	2,030	2,210	7.7	3.9	B13394
Do.	do.	T	5- by 2-inch		1,960	2,100	2,320	9.1	3.4	B13395
Do.	do.	T	2-inch by 0		1,960	2,100	2,290	11.2	3.4	B13396
Dillondale										
Nicholson No. 3	do.	T	5-inch lump		1,990	2,010	2,420	8.8	4.5	C4164
Do.	do.	T	5- by 1-1/4-inch		2,000	2,060	2,420	9.8	3.5	C4165
Do.	do.	T	1-1/4-inch by 0		2,020	2,080	2,380	11.1	3.2	C4166
Pine Valley	do.	T	Run-of-mine		1,940	2,100	2,340	12.1	4.5	E68943
Dunglen										
Dun Glen No. 11	do.	T	6-inch lump		1,940	2,030	2,510	7.9	4.3	B32143
Do.	do.	T	4- by 1-1/4-inch (W)		1,930	2,140	2,440	8.8	3.3	B32144
Do.	do.	T	1-1/4-inch by 0 (W)		2,040	2,160	2,620	12.5	3.3	B32145
Do.	do.	T	5/8-inch by 0		2,020	2,130	2,520	14.4	3.5	B32146
East Springfield										
Jensie-Wolf Run	No. 6	T	5-inch lump		2,070	2,340	2,530	8.7	2.6	E14759
Do.	do.	T	5- by 2-inch (W)		2,050	2,340	2,530	8.2	2.8	E14760
Do.	do.	T	2- by 1-1/4-inch (W)		1,920	2,110	2,310	8.1	2.7	E14761
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,040	2,220	2,510	8.1	2.6	E14762
Do.	do.	T	3/8-inch by 0		2,050	2,080	2,180	13.1	3.4	E14763
Hopedale (Harrison County)										
Dyco	No. 8	T	2-inch lump		1,940	2,100	2,390	8.6	3.2	B32039
Do.	do.	T	2- by 1-1/4-inch		2,000	2,210	2,650	10.0	2.9	B32040
Do.	do.	T	1-1/4-inch by 0		1,960	2,180	2,500	12.5	3.0	B32041
Polen	do.	T	2-inch lump		1,990	2,110	2,330	10.7	3.5	E43069

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Do.	do.	T	2- by 1-1/4-inch		2,000	2,130	2,350	11.0	3.5	E43070
Do.	do.	T	1-1/4- by 3/4-inch		1,930	2,130	2,350	12.1	3.2	E43071
Mingo Junction										
Brettell	do.	T	Run-of-mine		2,020	2,110	2,310	11.1	3.2	C4308
Piney Fork										
Florence	do.	T	4-inch lump		1,870	2,220	2,330	6.6	2.4	B13599
Do.	do.	T	4- by 1-inch		2,060	2,270	2,350	9.5	2.4	B13600
Do.	do.	T	1-inch by 0		1,980	2,080	2,260	12.9	2.9	B13601
Piney Fork	do.	T	5-inch lump (W)		2,080	2,130	2,420	5.3	2.0	D45698
Do.	do.	T	5- by 1-1/4-inch (W)		2,110	2,180	2,470	7.0	2.0	D45699
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,100	2,230	2,540	6.9	1.9	D45700
Do.	do.	T	3/8-inch by 0 (W)		2,080	2,210	2,470	7.3	2.1	D45701
Piney Fork No. 1	do.	T	5-inch lump		1,940	2,120	2,370	5.9	2.6	E39465
Do.	do.	T	5- by 1-1/4-inch (W)		2,090	2,260	2,480	7.7	2.4	E39466
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,000	2,220	2,470	7.8	2.2	E39467
Do.	do.	T	3/4-inch by 0 (W)		2,020	2,130	2,390	8.0	2.3	E39468
Smithfield										
Betsy	do.	T	Run-of-mine		2,010	2,100	2,380	11.1	3.8	C3956
Do.	do.	T	5-inch lump		1,980	2,040	2,300	7.6	3.8	E14834
Do.	do.	T	2- by 1-1/4-inch		1,910	2,180	2,360	13.2	3.5	E14835
Do.	do.	T	1-1/4-inch by 0		1,910	2,090	2,330	12.5	3.5	E14836
Betsy No. 1	do.	T	2-inch lump		1,970	2,050	2,420	8.1	3.2	D46648
Do.	do.	T	2-inch by 0		2,030	2,100	2,420	14.5	3.5	D46649
Betsy No. 2	do.	T	Run-of-mine		2,030	2,130	2,420	11.0	3.3	D47012
Pine Valley	do.	T	5- by 2-inch		2,730	2,780	2,860	5.5	.9	D46496
Do.	do.	T	2- by 3/4-inch		2,680	2,730	2,870	8.9	1.0	D46497
Do.	do.	T	3/4-inch by 0		2,470	2,520	2,700	15.8	.9	D46498
Steubenville										
Bernice	do.	T	Run-of-mine		2,010	2,220	2,400	12.3	3.4	C4499
Castner	No. 6	T	2-inch lump		2,010	2,100	2,450	8.6	3.3	C4280
Do.	do.	T	2- by 1-1/4-inch		2,130	2,430	2,560	12.0	2.6	C4281
Do.	do.	T	1-1/4- by 5/8-inch		2,070	2,300	2,470	12.1	3.3	C4282
Do.	do.	T	5/8-inch by 0		2,020	2,110	2,430	14.1	4.3	C4283
Do.	do.	T	Run-of-mine		2,000	2,260	2,620	11.4	2.8	D46298
Cross Creek	No. 8	T	do.		2,050	2,140	2,380	12.5	4.0	C4284
High Shaft	No. 6 A	T	2-1/2-inch lump		2,070	2,150	2,470	5.4	2.7	D46813
Do.	do.	T	2-1/2- by 1-1/4-inch		2,210	2,520	2,700	9.1	2.0	D46814
Do.	do.	T	1-1/4-inch by 0		2,130	2,310	2,540	9.1	2.7	D46815
Do.	do.	T	1-1/4- by 3/8-inch		2,100	2,420	2,600	10.1	2.6	D46816
Tiltonville										
Russell	No. 8	T	Run-of-mine		1,960	2,180	2,330	9.8	4.9	B13554
Wayco										
Ideal	do.	T	8-inch lump		1,990	2,060	2,380	8.0	4.0	C4407
Do.	do.	T	8-inch by 0		2,000	2,090	2,360	12.1	3.6	C4408
Wolf Run										
Wolf Run	No. 6	M		6	1,980	2,220	2,460	8.3	3.2	A60349 to A60354
Do.	do.	T	5-inch lump		2,020	2,140	2,520	9.2	3.7	C3110
Do.	do.	T	5- by 2-inch		2,020	2,150	2,460	9.8	3.0	C3111
Do.	do.	T	2- by 1-1/4-inch		2,050	2,120	2,450	10.7	3.4	C3112
Do.	do.	T	1-1/4-inch by 0		2,050	2,100	2,440	12.0	3.2	C3113
Lawrence County										
Blackfork										
Collins Nos. 1 & 2	No. 4	T	Run-of-mine		1,950	2,150	2,400	16.0	5.0	C48298
Do.	do.	T	4-inch lump		1,970	2,040	2,080	9.7	5.6	C70262
Do.	do.	T	4- by 1-5/8-inch		2,010	2,230	2,420	13.2	4.3	C70263
Do.	do.	T	1-5/8-inch by 0		2,120	2,460	2,580	17.5	3.8	C70264

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Mahoney County										
North Lima										
DeLauther	No. 4	T	Run-of-mine		2,030	2,150	2,420	9.5	2.3	D46650
North Lima	do.	T	do.		2,040	2,270	2,400	8.8	1.9	E39647
Do.	do.	T	4- by 2-inch		2,370	2,490	2,620	10.2	1.5	E39648
Do.	do.	T	2- by 1-1/4-inch		2,340	2,470	2,590	9.8	1.7	E39649
Do.	do.	T	1-1/4- by 5/8-inch		2,080	2,330	2,470	9.2	1.9	E39650
Do.	do.	T	5/8-inch by 0		2,090	2,380	2,560	14.1	2.4	E39651
Padurian	do.	T	Run-of-mine		2,870	2,910+	-	6.3	.6	E39652
Pfau	do.	T	3-1/2-inch lump		1,990	2,200	2,480	3.6	1.7	E40244
Do.	do.	T	3-1/2- by 2-inch		1,990	2,220	2,510	4.3	1.8	E40245
Do.	do.	T	2- by 1-1/4-inch		1,990	2,200	2,480	4.1	1.9	E40246
Do.	do.	T	1-1/4- by 3/8-inch		2,020	2,220	2,440	6.0	2.1	E40247
Do.	do.	T	3/8-inch by 0		2,000	2,210	2,440	10.8	2.9	E40248
Woodworth	No. 5	T	Run-of-mine		2,170	2,380	2,570	12.0	3.3	C4716
Do.	No. 4	T	3-1/2-inch lump		2,240	2,440	2,620	1.8	.7	E40249
Do.	do.	T	3-1/2- by 2-inch		2,110	2,250	2,470	2.0	.8	E40250
Do.	do.	T	2- by 1-1/4-inch		2,100	2,200	2,460	2.9	1.0	E40251
Do.	do.	T	1-1/4- by 3/8-inch		1,990	2,120	2,390	3.8	1.2	E40252
Do.	do.	T	3/8-inch by 0		2,020	2,140	2,400	11.0	2.5	E40253
Petersburg										
A & H	do.	T	Run-of-mine		1,990	2,060	2,330	8.1	3.3	E39646
Salem										
Davis	No. 3 A	T	do.		1,990	2,050	2,090	7.2	4.7	E40243
Meigs County										
Cheshire (Gallia County)										
Peacock No. 1	No. 8 A	T	4-inch lump		2,540	2,600	2,700	8.5	2.5	D80841
Do.	do.	T	4- by 2-inch (W)		2,520	2,630	2,740	7.5	2.2	D80842
Do.	do.	T	2- by 1-inch (W)		2,470	2,600	2,700	9.0	2.6	D80843
Do.	do.	T	1-inch by 0		2,090	2,210	2,450	12.8	3.1	D80844
Middleport										
Groves	No. 8	T	Run-of-mine		1,940	2,030	2,360	10.8	3.3	D41465
Hobart No. 2	do.	T	do.		2,150	2,490	2,590	10.7	3.2	D80840
Pomeroy										
Charter Oak	do.	T	do.		1,940	2,080	2,310	10.5	5.3	D41081
Charter Oak No. 3	No. 8 A	T	6-inch lump		1,990	2,090	2,390	13.1	4.0	B81419
Do.	do.	T	6- by 2-inch		2,030	2,230	2,460	17.0	4.3	B81420
Do.	do.	T	2- by 1/2-inch		2,070	2,300	2,570	22.1	4.3	B81421
Do.	do.	T	1/2-inch by 0		2,070	2,310	2,450	23.1	4.6	B81422
Dark Hollow No. 2	do.	T	Run-of-mine		2,100	2,260	2,470	9.7	2.1	D65867
Princess Pat	do.	T	6-inch lump		2,540	2,700	2,810	8.7	1.0	E14687
Do.	do.	T	6- by 2-inch		2,040	2,140	2,490	12.6	2.7	E14688
Do.	do.	T	2- by 1-1/2-inch		2,010	2,160	2,470	13.5	2.6	E14689
Do.	do.	T	1-1/2- by 7/8-inch		1,940	2,140	2,470	11.4	2.6	E14690
Do.	do.	T	7/8-inch by 0		2,020	2,170	2,420	15.6	3.3	E14691
Swisher	do.	T	Run-of-mine		1,940	2,260	2,460	11.4	3.6	D68089
Thomas Fork No. 5	do.	T	5-inch lump		2,160	2,210	2,500	8.9	4.6	B81595

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Do.	do.	T	5- by 2-inch	2,030	2,130	2,400	11.4	5.7	B81596
Do.	do.	T	2-inch by 0	2,030	2,120	2,470	11.1	5.1	B81597
Thomas Fork No. 7	do.	T	5-inch lump	2,460	2,510	2,760	14.1	3.0	B81598
Do.	do.	T	5- by 2-inch	2,470	2,520	2,760	11.7	2.6	B81599
Do.	do.	T	2-inch by 0	2,130	2,440	2,580	11.3	2.7	B81600
Willow Creek No. 2	do.	T	Run-of-mine	2,080	2,380	2,620	12.7	2.3	D65974
Rutland									
Jacobs	No. 8	T	do.	2,030	2,100	2,420	11.6	3.5	D41466
Koontz	do.	T	do.	1,970	2,100	2,430	13.9	5.3	D41083
Morgan County									
Crookville (Perry County)									
Singer & Byer	No. 6	T	do.	2,080	2,230	2,590	8.7	3.5	D40632
Tropic									
Manhattan No. 51	do.	T	5-inch lump	2,030	2,170	2,450	6.5	2.4	B12846
Do.	do.	T	5- by 2-inch	2,030	2,170	2,460	7.8	2.7	B12847
Do.	do.	T	2-inch by 0	2,030	2,130	2,330	13.1	3.1	B12848
Manhattan No. 52	do.	T	5-inch lump	1,960	2,190	2,510	6.7	2.6	B12728
Do.	do.	T	5- by 2-inch	1,960	2,200	2,450	7.5	2.8	B12729
Do.	do.	T	2-inch by 0	2,000	2,140	2,420	13.0	3.6	B12730
Muskingum County									
Adams Mills									
Bear Creek	do.	T	Run-of-mine	1,900	2,120	2,500	10.0	3.8	D85378
Glenwood	do.	T	do.	1,920	2,080	2,460	9.4	2.7	E16035
Red Ember No. 3	No. 4 A	T	do.	1,990	2,060	2,360	9.4	4.2	E41238
Ostego									
Low Ash No. 2	No. 6	T	do.	1,990	2,100	2,380	9.0	4.3	C9853
Sherrick	do.	T	2-inch lump	1,940	2,050	2,380	5.5	3.6	C9928
Do.	do.	T	2- by 1-1/4-inch	2,000	2,080	2,400	7.9	3.4	C9929
Do.	do.	T	1-1/4- by 5/8-inch	1,940	2,070	2,360	9.4	4.3	C9930
Do.	do.	T	5/8-inch by 0	1,920	1,990	2,200	9.7	4.8	C9931
Roseville									
Elk	do.	T	Run-of-mine	1,830	2,000	2,310	10.0	4.1	B12928
Do.	do.	T	5-inch lump	1,830	2,000	2,310	6.9	3.8	B12929
Rose Glow	do.	T	do.	2,030	2,080	2,360	7.8	4.7	C10392
Do.	do.	T	5-inch by 0	2,030	2,070	2,380	13.2	4.5	C10393
Do.	do.	T	6- by 1-1/4-inch (W)	2,050	2,150	2,490	7.8	4.4	D66165
Do.	do.	T	1-1/4- by 3/8-inch (W)	1,940	2,080	2,360	9.7	4.1	D66166
Do.	do.	T	3/8-inch by 0	2,030	2,150	2,490	18.0	5.8	D66167
Do.	do.	T	5- by 2-inch (W)	2,060	2,140	2,420	7.0	4.3	D66168
Do.	do.	T	2- by 1-1/4-inch (W)	1,940	2,100	2,470	7.6	4.0	D66169
Ten X	do.	T	3-inch lump	2,020	2,080	2,400	6.5	3.7	D40325
Do.	do.	T	3- by 2-inch	2,030	2,080	2,420	9.3	4.1	D40326
Do.	do.	T	2- by 1-inch	2,030	2,130	2,490	10.4	3.6	D40327
Do.	do.	T	1- by 1/2-inch	2,050	2,230	2,470	15.2	3.9	D40328
Do.	do.	T	1/2-inch by 0	2,000	2,080	2,360	18.7	4.5	D40329
Ten X No. 4	do.	T	5-1/2- by 2-inch	1,990	2,130	2,500	5.9	3.0	E51950
Do.	do.	T	2- by 1-inch (W)	1,920	2,130	2,480	7.4	2.9	E51951
Do.	do.	T	1- by 1/2-inch (W)	2,000	2,170	2,460	8.5	2.8	E51952
Do.	do.	T	1/2-inch by 28-mesh (W)	2,000	2,090	2,150	7.9	3.1	E51953
Triangle	do.	T	4-inch lump	2,040	2,080	2,380	8.7	5.2	C10388
Do.	do.	T	4- by 1-1/2-inch	2,010	2,120	2,410	14.5	5.1	C10389
Do.	do.	T	1-1/2- by 5/8-inch	2,020	2,110	2,400	13.0	5.3	C10390
Do.	do.	T	5/8-inch by 0	2,020	2,120	2,420	15.9	5.3	C10391
Stovertown									
Stovertown	No. 7	T	2-inch lump	1,980	2,160	2,310	9.4	6.8	E53505
Do.	do.	T	2- by 1-inch	1,980	2,160	2,380	10.7	7.1	E53506
Do.	do.	T	1-inch by 0	1,970	2,040	2,320	15.5	7.9	E53507
Do.	No. 6	T	Run-of-mine	1,970	2,100	2,380	10.8	4.9	E53656

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
			OHIO (Con.)							
Muskingum County (Con.)										
White Cottage										
White Cottage No. 3	No. 6	T	Run-of-mine		2,000	2,090	2,440	12.5	4.7	E51949
Zanesville										
Blue Diamond No. 2	do.	T	do.		2,070	2,230	2,490	17.5	4.0	C10019
Caughell	No. 7	T	do.		2,170	2,380	2,510	18.8	3.3	D43292
Gilbert	No. 6	T	do.		2,000	2,270	2,470	9.5	4.2	D42775
Good No. 2	No. 7	T	1-1/4-inch lump		2,010	2,080	2,270	10.3	6.9	C10436
Do.	do.	T	1-1/4-inch by 0		1,990	2,030	2,130	19.1	8.8	C10437
Noble County										
Caldwell										
Caldwell	do.	T	1-1/2-inch lump		2,000	2,110	2,480	9.1	2.6	B13046
Do.	do.	T	1-1/2-inch by 0		2,010	2,100	2,470	10.4	2.9	B13047
Dexter										
Union Carbide & Carbon Co.	No. 9	M		1	1,920	2,070	2,330	14.1	5.5	D83298
Perry County										
Carrington										
Carrington No. 15	No. 6	T	5-inch lump		2,360	2,510	2,650	5.9	1.4	B11843
Do.	do.	T	5- by 1-3/4-inch		2,130	2,530	2,650	8.9	1.8	B11844
Do.	do.	T	1-3/4-inch by 0		2,130	2,360	2,550	11.1	1.8	B11845
Shady Hill No. 107	do.	T	Run-of-mine		2,050	2,390	2,540	9.7	2.2	B11577
Sunday Creek No. 5	do.	T	5-inch lump		2,000	2,240	2,550	6.3	2.8	B15988
Do.	do.	T	5- by 2-inch		2,050	2,290	2,530	9.3	2.8	B15989
Do.	do.	T	2-inch by 0		2,040	2,360	2,530	14.1	3.0	B15990
Congo										
Sunday Creek No. 219	do.	T	5-inch lump		2,910+	-	-	6.3	.7	E41749
Do.	do.	T	5- by 1-1/4-inch		2,910+	-	-	6.7	.6	E41750
Do.	do.	T	1-1/4-inch by 0		2,580	2,680	2,830	7.3	.6	E41751
Do.	do.	T	4-inch lump		2,730	2,810	2,910+	7.0	.9	B11812
Do.	do.	T	4- by 1-1/2-inch		2,740	2,800	2,840	9.5	.9	B11813
Do.	do.	T	1-1/2- by 3/8-inch		2,600	2,670	2,740	9.6	1.1	B11814
Do.	do.	T	3/8-inch by 0		2,270	2,370	2,490	10.6	1.1	B11815
Corning										
Greenvalley	No. 6 B	T	Run-of-mine		1,900	1,970	2,380	9.7	4.3	D42091
Juliet No. 15	No. 6	T	do.		2,210	2,570	2,620	11.5	1.9	D44884
Liden No. 4	No. 7	T	5-inch lump		1,970	2,050	2,380	6.4	2.4	D42088
Do.	do.	T	5- by 2-inch (W)		2,050	2,130	2,470	6.9	2.6	D42089
Do.	do.	T	2-inch by 20-mesh (W)		2,050	2,230	2,490	8.1	2.4	D42090
Rand Mar No. 9	No. 6	T	5-inch lump		2,600	2,650	2,750	10.6	1.9	D42084
Do.	do.	T	5- by 3-inch (W)		2,600	2,650	2,750	12.3	1.9	D42085
Do.	do.	T	3- by 1-inch (W)		2,470	2,570	2,730	9.9	1.8	D42086
Do.	do.	T	1-inch by 20-mesh (W)		2,130	2,490	2,600	9.1	1.9	D42087
Crookville										
Primrose	do.	T	Run-of-mine		2,000	2,080	2,470	9.6	3.7	D44882
East Fultonham										
Sandra	do.	T	do.		1,970	2,130	2,520	11.2	4.6	D44883

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Hemlock										
G.M.S.	do.	T	2-inch lump		2,130	2,310	2,550	9.8	2.7	C10434
Do.	do.	T	2-inch by 0		2,150	2,450	2,680	15.2	2.3	C10435
McCuneville										
Thorn Hill	do.	T	2-inch lump		2,000	2,060	2,360	6.8	3.4	C11658
Do.	do.	T	2-inch by 0		2,170	2,320	2,600	13.9	3.0	C11659
Misco										
Misco	do.	T	5- by 2-inch (W)		2,050	2,310	2,560	6.8	2.3	E15552
Do.	do.	T	2- by 1-inch (W)		2,170	2,490	2,600	9.0	2.3	E15553
Do.	do.	T	1- by 3/8-inch (W)		2,000	2,390	2,570	8.9	2.2	E15554
Do.	do.	T	3/8-inch by 28-mesh (W)		2,060	2,210	2,420	9.8	2.2	E15555
New Lexington										
Barnes	do.	T	Run-of-mine		1,970	2,080	2,520	7.8	4.1	D43286
Benchley-Marsh	No. 5	T	do.		1,960	2,040	2,420	8.2	2.8	C71088
Carole No. 1	No. 6	T	do.		2,030	2,230	2,530	10.3	3.1	D68299
J. T. No. 2	do.	T	do.		1,980	2,250	2,490	11.1	4.0	C70265
Do.	No. 5	T	do.		1,900	2,180	2,420	10.8	3.8	D50758
New Albany	No. 6	T	do.		2,000	2,150	2,420	11.3	3.2	D40631
Roxbury No. 2	do.	T	do.		2,050	2,140	2,470	16.8	5.3	C29982
S. & S.	do.	T	do.		2,050	2,260	2,450	10.8	4.2	C69900
White Elm	do.	T	5-inch lump		1,990	2,130	2,620	7.8	4.5	B81659
Do.	do.	T	5- by 2-inch		2,070	2,310	2,610	7.5	3.5	B81660
Do.	do.	T	2-inch by 0		2,020	2,170	2,480	11.7	4.8	B81661
New Straitsville										
M & M	do.	T	Run-of-mine		2,050	2,210	2,520	7.7	2.5	D43287
Do.	do.	T	1-1/4- by 1/4-inch		1,980	2,330	2,560	6.2	2.4	D43288
Sidwell	do.	T	4-inch lump		1,940	2,140	2,360	6.1	3.4	C71294
Do.	do.	T	4- by 2-inch		1,980	2,150	2,390	7.9	3.8	C71295
Do.	do.	T	2-inch by 0		2,000	2,230	2,420	13.4	3.4	C71296
Do.	do.	T	5-inch lump		2,600	2,730	2,840	3.4	1.3	D41608
Do.	do.	T	5- by 2-inch (W)		2,140	2,520	2,590	3.5	1.5	D41609
Do.	do.	T	2-inch by 20-mesh (W)		2,580	2,680	2,790	5.9	1.3	D41610
Do.	do.	T	1- by 1/4-inch		2,130	2,500	2,580	4.2	1.6	D41611
Rendville										
Denise	do.	T	5-inch lump		2,850	2,910+	-	6.2	.8	E13927
Do.	do.	T	5- by 3-inch (W)		2,840	2,910+	-	6.7	.9	E13928
Do.	do.	T	3- by 2-inch (W)		2,780	2,850	2,910+	7.8	1.0	E13929
Do.	do.	T	2-inch by 20-mesh (W)		2,600	2,670	2,770	8.3	1.2	E13930
Sunday Creek No. 9	do.	T	5-inch lump		1,980	2,140	2,490	9.6	2.8	B11776
Do.	do.	T	5- by 2-inch		2,030	2,210	2,480	7.6	2.5	B11777
Do.	do.	T	2-inch by 0		2,010	2,200	2,460	13.7	3.0	B11778
Shawnee										
Angle	do.	T	Run-of-mine		1,990	2,100	2,390	15.0	4.3	D85218
Cenci	do.	T	do.		2,000	2,170	2,470	8.3	3.2	D51056
Copperhead	do.	T	6-inch lump		2,490	2,580	2,750	5.4	1.2	B43396
Do.	do.	T	6- by 2-1/2-inch		2,520	2,600	2,760	7.0	1.4	B43397
Do.	do.	T	2-1/2- by 1/2-inch		2,760	2,820	2,900	12.5	1.0	B43398
Do.	do.	T	1/2-inch by 0		2,560	2,760	2,830	16.8	1.1	B43399
Pike	do.	T	4-inch lump		1,990	2,110	2,530	6.3	3.2	B12006
Do.	do.	T	4- by 2-inch		1,940	2,140	2,490	9.6	3.6	B12007
Do.	do.	T	2-inch by 0		1,980	2,140	2,430	11.0	3.1	B12008
Somerset										
Old Mt. Perry	No. 5	T	Run-of-mine		1,910	2,060	2,420	10.5	4.3	E51948
Portage County										
Deerfield										
Black Diamond	No. 1	M		1	2,050	2,160	2,430	8.1	1.7	C5062
Ravenna										
Keller No. 1	No. 4	T	Run-of-mine		1,940	2,210	2,420	14.6	3.9	D67675

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OHIO (Con.)										
Stark County										
East Sparta										
Reedurban	No. 6	T	Run-of-mine		1,940	2,180	2,440	10.8	3.8	B32443
Do.	do.	T	2-3/4-inch by 0		2,010	2,300	2,570	13.0	3.4	B32444
Waynesburg										
Mapleton	do.	T	6-1/2-inch lump		1,980	2,160	2,440	11.3	4.0	E49469
Do.	do.	T	6-1/2- by 2-1/4-inch		1,940	2,110	2,390	13.8	5.2	E49470
Do.	do.	T	2-1/4- by 1-inch		2,020	2,250	2,470	10.0	3.2	E49471
Do.	do.	T	1-inch by 0		1,940	2,210	2,450	12.7	2.7	E49472
Tuscarawas County										
Dover										
Beaber	do.	T	2-inch lump		1,990	2,210	2,450	8.2	3.4	C8023
Do.	do.	T	2- by 1-inch		2,010	2,240	2,450	8.7	3.2	C8024
Do.	do.	T	1- by 1/2-inch		2,000	2,230	2,450	8.6	3.3	C8025
Do.	do.	T	1/2-inch by 0		2,110	2,160	2,320	14.1	3.5	C8026
Dover	No. 5	T	Run-of-mine		2,000	2,220	2,430	10.4	4.5	C9714
Dundee										
Demsky	do.	T	4-inch lump		1,900	2,090	2,390	5.0	2.7	E15786
Do.	do.	T	4- by 1-1/4-inch		1,970	2,050	2,240	6.8	3.4	E15787
Do.	do.	T	1-1/4- by 3/8-inch		1,920	2,150	2,440	10.3	3.5	E15788
Do.	do.	T	3/8-inch by 0		2,050	2,240	2,460	19.5	3.7	E15789
Midvale										
Midvale No. 4	No. 6	M		2	2,100	2,200	2,290	7.0	2.9	A67693 and A67694
Midvale No. 7	do.	T	1-1/4-inch lump		1,970	2,070	2,380	8.8	4.8	C8231
Do.	do.	T	1-1/4- by 9/16-inch		1,970	2,050	2,310	9.9	5.3	C8232
Do.	do.	T	9/16-inch by 0		1,930	2,010	2,210	11.0	4.9	C8233
New Cumberland										
Central Valley No. 4	do.	T	2-inch lump		2,090	2,210	2,580	7.4	2.8	B32494
Do.	do.	T	4- by 2-inch		2,030	2,210	2,540	8.3	3.0	B32495
Do.	do.	T	2- by 1-1/4-inch		1,950	2,180	2,540	9.8	3.6	B32496
Do.	do.	T	1-1/4- by 1/2-inch		2,000	2,210	2,480	9.6	3.2	B32497
Do.	do.	T	1-1/4-inch by 0		2,000	2,150	2,460	12.0	3.9	B32498
New Philadelphia										
Blue Shaft	do.	T	2-inch lump		1,970	2,140	2,410	7.4	3.0	B13909
Do.	do.	T	2-inch by 0		1,970	2,050	2,360	11.0	4.2	B13910
Sugarcreek										
Dundee	No. 5	T	1-1/4-inch lump		1,970	2,200	2,400	7.2	4.2	C8234
Do.	do.	T	1-1/4- by 1/2-inch		1,960	2,160	2,370	8.6	4.4	C8235
Do.	do.	T	1/2-inch by 0		2,080	2,220	2,460	19.1	4.9	C8236
Finzer	No. 3 A	T	4-inch lump		2,010	2,030	2,330	10.5	4.4	C8118
Do.	do.	T	4- by 1-1/4-inch		2,020	2,060	2,360	13.6	4.5	C8119
Do.	do.	T	1-1/4- by 1/2-inch		2,010	2,050	2,360	15.7	5.7	C8120
Do.	do.	T	1/2-inch by 0		2,020	2,070	2,360	16.2	4.7	C8121
Wainwright										
Wainwright No. 8	No. 6	T	Run-of-mine		1,970	2,150	2,310	9.1	3.9	B13931

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Vinton County										
Creola										
Econocoal	do.	T	3-inch lump		1,940	2,120	2,520	5.8	3.2	E54964
Do.	do.	T	2- by 1-inch (W)		2,080	2,230	2,550	8.7	3.5	E54965
Do.	do.	T	1-inch by 1-mm. (W)		2,080	2,230	2,600	8.7	3.5	E54966
Do.	do.	T	1- by 7/8-inch (W)		2,090	2,350	2,620	8.0	3.3	E54967
Dundas										
Jackson County No. 2	No. 5	T	5-inch lump		1,990	2,320	2,690	13.1	5.4	B50707
Do.	do.	T	5- by 2-inch		1,910	2,330	2,600	13.2	4.3	B50708
Do.	do.	T	2- by 3/8-inch		2,050	2,310	2,570	16.9	4.7	B50709
Do.	do.	T	3/8-inch by 0		1,900	2,320	2,570	23.3	6.0	B50710
Hamden										
Clinton	No. 6	T	Run-of-mine		2,000	2,100	2,440	5.7	2.4	D42366
Wellston										
Buckeye Furnace	No. 7	T	4-inch lump		2,030	2,100	2,360	6.6	3.7	D50321
Do.	do.	T	4- by 1-inch		2,050	2,100	2,420	11.6	5.0	D50322
Stonewall Jackson	do.	T	2-inch lump		2,110	2,160	2,390	7.4	4.5	B11208
Do.	do.	T	2- by 1/8-inch		2,000	2,030	2,340	10.2	5.0	B11209

OKLAHOMA

Coal County										
Coalgate										
Cleland	Lehigh	T	1-1/4-inch lump		2,160	2,210	2,360	9.8	4.3	B87084
Do.	do.	T	1-1/4- by 1-inch		1,870	1,940	2,030	11.2	4.0	B87085
Do.	do.	T	1-inch by 0		2,010	2,080	2,250	21.3	3.9	B87086
Glasco & Miller	do.	T	2-1/2-inch lump		1,970	2,000	2,190	8.7	4.7	B88739
Do.	do.	T	2-1/2- by 1-inch		1,970	2,020	2,190	10.9	4.5	B88740
Do.	do.	T	1-inch by 0		2,010	2,110	2,260	20.5	3.8	B88741
Green Bier	do.	T	2-1/2-inch lump		2,150	2,260	2,310	9.6	3.8	B88735
Do.	do.	T	2-1/2-inch by 0		2,110	2,150	2,230	11.2	4.2	B88736
Tom Jones No. 3	do.	T	2-1/2-inch lump		2,160	2,260	2,320	8.5	3.5	B86683
Do.	do.	T	2-1/2- by 1-1/4-inch		2,010	2,030	2,050	9.5	3.6	B86684
Do.	do.	T	1-1/4-inch by 0		1,970	2,020	2,140	14.9	3.8	B86685
Keystone	do.	M		1	2,000	2,100	2,340	11.1	3.8	B785
Midway	do.	T	6-inch lump		2,120	2,170	2,270	13.0	6.5	C30553
Do.	do.	T	6- by 2-inch		2,110	2,160	2,280	12.1	6.3	C30552
M.K.T. No. 21	do.	M		3	2,260	2,300	2,350	7.3	2.0	B10266 to B10268
Noel No. 3	do.	T	1-1/2-inch lump		2,290	2,320	2,350	6.7	1.8	B88737
Do.	do.	T	1-1/2-inch by 0		1,950	1,970	2,100	12.5	3.0	B88738
Old Hazelton	do.	M		1	2,210	2,300	2,530	13.3	3.9	B786
Peters No. 1	do.	T	2-1/2-inch lump		2,230	2,260	2,310	8.1	3.1	B86038
Do.	do.	T	2-1/2- by 1-1/4-inch		2,150	2,190	2,220	8.4	2.8	B86039
Do.	do.	T	1-1/4-inch by 0		1,950	2,000	2,100	16.1	3.2	B86040
Phillips	do.	T	2-1/2-inch lump		2,150	2,260	2,310	8.2	3.9	B86448
Do.	do.	T	2-1/2- by 1-1/4-inch		2,150	2,210	2,310	9.0	4.2	B86449
Do.	do.	T	1-1/4-inch by 0		1,900	1,940	2,050	16.1	4.2	B86450
S.H.S.	do.	T	2-1/2-inch lump		2,180	2,210	2,320	8.4	2.9	B86445
Do.	do.	T	2-1/2- by 1-1/4-inch		2,140	2,160	2,180	8.4	2.9	B86446
Do.	do.	T	1-1/4-inch by 0		1,920	1,980	2,080	14.6	3.1	B86447
Lehigh										
Cooley Brothers	do.	T	4-inch lump		2,320	2,360	2,440	10.1	3.6	C22146
Do.	do.	T	4- by 1-1/4-inch		2,230	2,270	2,360	10.8	4.4	C22147
Do.	do.	T	1-1/4- by 3/8-inch		2,010	2,060	2,200	10.6	4.6	C22148
Do.	do.	T	4-inch by 0		2,010	2,050	2,140	13.7	4.8	C22149
E & C	do.	T	2-1/2-inch lump		2,210	2,260	2,310	8.9	3.7	B86451
Do.	do.	T	2-1/2- by 1-1/4-inch		2,080	2,140	2,220	10.8	4.6	B86452
Do.	do.	T	1-1/4-inch by 0		1,970	2,050	2,150	17.4	4.2	B86453
J. L. Gaddo	do.	M		1	2,060	2,210	2,280	15.4	5.0	B10021
Lehigh	do.	T	2-1/2-inch lump		2,220	2,260	2,360	9.9	4.0	B87081

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OKLAHOMA (Con.)										
Coal County (Con.)										
Lehigh										
Lehigh	Lehigh	T	2-1/2- by 1-1/4-inch		2,090	2,100	2,190	10.0	3.4	B87082
Do.	do.	T	1-1/4-inch by 0		2,020	2,090	2,260	19.7	3.5	B87083
Wells No. 1	do.	T	2-1/2-inch lump		2,270	2,320	2,400	10.0	3.8	B86686
Do.	do.	T	2-1/2- by 1-1/4-inch		2,040	2,050	2,120	11.2	4.3	B86687
Do.	do.	T	1-1/4- by 3/8-inch		1,910	1,930	2,020	12.5	4.1	B86688
Do.	do.	T	3/8-inch by 0		1,980	2,050	2,170	20.2	4.1	B86689
Craig County										
Bluejacket										
3 C	-	M		1	2,270	2,430	-	10.4	6.3	A24778
Welch										
Clark	-	M		1	1,990	2,170	2,340	10.6	4.4	A24777
White Oak										
White Oak	White Oak	T	2-1/2-inch lump		2,100	2,210	2,520	9.0	5.2	D61974
Do.	do.	T	2-1/2- by 1-1/4-inch		2,100	2,230	2,420	9.4	5.5	D61975
Do.	do.	T	1-1/4- by 5/8-inch		2,040	2,140	2,170	9.7	5.5	D61976
Do.	do.	T	5/8-inch by 0		2,080	2,360	2,520	12.6	6.9	D61977
Haskell County										
Kanima										
Headly	Stigler	M		1	2,090	2,130	2,280	2.9	.8	A3087
McCurtain										
McCurtain No. 1	-	M		1	2,030	2,130	2,330	6.3	.5	B80827
McCurtain No. 1 (New)	Hartshorne	M		1	2,180	2,260	2,380	9.5	.7	B96278
McCurtain No. 1	do.	T	1-1/2-inch lump		2,010	2,050	2,190	9.7	.9	C7394
Do.	do.	T	1-1/2-inch by 0		2,250	2,290	2,490	15.1	.8	C7395
Panther No. 1	Lower Hartshorne	T	2-1/2-inch lump		2,280	2,340	2,520	7.3	.5	B58338
Do.	do.	T	2-1/2-inch by 0		2,150	2,210	2,500	10.4	1.0	B58339
San Bois No. 9	do.	T	8-inch lump		2,290	2,340	2,470	5.5	.8	B55553
Do.	do.	T	8- by 2-1/2-inch		2,280	2,310	2,450	5.9	1.1	B55554
Do.	do.	T	2-1/2-inch by 0		2,080	2,140	2,310	9.0	.9	B55555
San Bois No. 11	do.	M		2	2,250	2,390	2,510	8.0	1.1	B23750 and B23751
San Bois No. 12	do.	T	6-inch lump		2,410	2,440	2,480	4.7	.7	B81916
Do.	do.	T	6-inch by 0		2,030	2,080	2,310	8.1	1.4	B81917
San Bois No. 14	do.	T	Run-of-mine		2,040	2,150	2,450	8.8	1.9	B81426
Do.	Hartshorne	M		3	2,000	2,090	2,330	5.3	1.4	B88027 to B88029
Sweeney No. 2	Lower Hartshorne	T	Run-of-mine		2,070	2,170	2,370	5.7	.9	B81022
Stigler										
Acme	Stigler	M		1	1,960	2,010	2,150	3.4	.8	A3085
Cedar Creek	do.	T	6-inch lump		2,180	2,280	2,470	3.2	1.5	D48546
Do.	do.	T	6- by 2-inch		2,180	2,280	2,470	3.4	1.4	D48547
Do.	do.	T	2-inch by 0		1,940	2,310	2,520	6.4	1.5	D48548
Garland	do.	M		5	2,040	2,110	2,390	4.4	.7	B88502 to B88506
Do.	do.	T	Run-of-mine		2,090	2,280	2,540	5.0	.5	B90975
Whitefield										
Simmons No. 9	Hartshorne	T	do.		2,000	2,090	2,190	5.0	1.1	B69522

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Latimer County										
Lutie										
Hailey Ola	Lower Hartshorne	M		2	2,010	2,220	2,310	6.3	1.8	A21474 and A21475
Red Oak										
Cavanaugh	Lehigh	T	16- by 8-inch		2,150	2,320	2,390	3.6	2.1	E15067
Do.	do.	T	8- by 2-1/2-inch		2,170	2,380	2,430	3.8	2.3	E15068
Do.	do.	T	do.		2,160	2,350	2,380	7.7	3.1	E27869
Do.	do.	T	2-1/2-inch by 0		2,090	2,140	2,160	10.3	3.5	E27870
Old Mac	do.	T	Run-of-mine		2,050	2,100	2,180	9.0	2.8	C94984
Wilburton										
Gore Hoover	Lower Hartshorne	T	1-1/8-inch lump		2,070	2,150	2,580	3.9	1.2	B90381
Do.	do.	T	1-1/8-inch by 0		2,210	2,350	2,650	18.0	2.5	B90382
Gore Hoover No. 1	Wilburton	T	Run-of-mine		2,090	2,150	2,550	6.6	1.9	B69515
Kinta	Upper Hartshorne	T	2-1/2-inch lump		2,000	2,140	2,340	4.1	1.2	E42864
Do.	do.	T	2-1/2- by 1-1/4-inch		2,030	2,120	2,300	3.8	1.1	E42865
Do.	do.	T	1-1/4- by 1/2-inch		2,050	2,150	2,330	4.0	1.2	E42866
Do.	do.	T	1-1/4-inch by 0		2,010	2,110	2,300	4.7	1.2	E42867
Vita	Hartshorne	T	3-inch lump		2,170	2,240	2,470	3.3	1.7	B83118
Do.	do.	T	3- by 1-1/4-inch		1,970	2,090	2,470	6.7	1.7	B83119
Do.	do.	T	1-1/4-inch by 0		2,070	2,180	2,540	15.1	2.4	B83120
LeFlore County										
Bokoshe										
Banner No. 18	Lower Hartshorne	T	10-inch lump		2,300	2,450	2,630	7.5	.9	B55365
Do.	do.	T	10- by 6-inch		2,290	2,430	2,580	7.3	.9	B55366
Do.	do.	T	6- by 2-1/2-inch		2,250	2,400	2,550	7.5	1.1	B55367
Do.	do.	T	2-1/2-inch by 0		2,140	2,220	2,500	11.8	1.0	B55368
Black Diamond No. 6	do.	T	2-1/2-inch lump		2,290	2,380	2,580	8.6	1.7	B55454
Do.	do.	T	2-1/2-inch by 0		2,080	2,160	2,410	11.6	1.5	B55455
Bokoshe	Upper Hartshorne	T	Run-of-mine		2,250	2,330	2,380	8.9	1.4	B56726
Burnwell No. 10	Lower Hartshorne	T	2-1/2-inch lump		2,270	2,310	2,530	6.5	1.0	B57084
Do.	do.	T	2-1/2-inch by 0		2,310	2,450	2,660	17.9	.9	B57085
Davis & Swindle	do.	T	2-1/2-inch lump		2,080	2,240	2,470	4.9	2.0	B57160
Do.	do.	T	2-1/2-inch by 0		2,090	2,380	2,540	11.8	2.1	B57161
Evans	Hartshorne	T	Run-of-mine		2,050	2,100	2,360	6.4	1.0	C94982
Gillie	Lower Hartshorne	T	10-inch lump		2,350	2,400	2,580	4.2	.5	B55165
Do.	do.	T	10- by 6-inch		2,370	2,410	2,600	4.2	.5	B55166
Do.	do.	T	6- by 2-1/2-inch		2,180	2,270	2,390	4.9	.7	B55167
Do.	do.	T	2-1/2-inch by 0		2,170	2,240	2,430	10.9	1.0	B55168
Gillie No. 5	do.	T	10-inch lump		2,310	2,360	2,480	4.1	.6	B80560
Do.	do.	T	10- by 6-inch		2,230	2,270	2,420	4.4	.5	B80561
Do.	do.	T	6- by 4-inch		2,230	2,280	2,500	4.7	.6	B80562
Do.	do.	T	4-inch by 0		2,100	2,160	2,440	9.0	.9	B80563
Henderson	do.	T	2-1/2-inch lump		2,020	2,120	2,230	6.0	.8	B57082
Do.	do.	T	2-1/2-inch by 0		2,270	2,310	2,490	13.9	1.2	B57083
Independant No. 16	do.	T	2-1/2-inch lump		2,280	2,370	2,530	8.9	1.1	B55551
Do.	do.	T	2-1/2-inch by 0		2,240	2,320	2,590	16.6	.9	B55552
Keener	do.	T	10-inch lump		2,230	2,290	2,500	3.7	.7	B55451
Do.	do.	T	10- by 2-1/2-inch		2,240	2,300	2,570	4.2	.8	B55452
Do.	do.	T	2-1/2-inch by 0		2,120	2,220	2,440	12.0	1.7	B55453
Do.	do.	T	2-1/2- by 1-1/4-inch		2,050	2,090	2,400	6.4	.8	B58170
Do.	do.	T	1-1/4-inch by 0		2,070	2,160	2,470	9.8	1.6	B58171
Keener No. 1	do.	T	10-inch lump		2,370	2,440	2,580	4.4	.6	B81497
Do.	do.	T	10- by 4-inch		2,210	2,420	2,480	4.7	.5	B81498
Do.	do.	T	4-inch by 0		2,050	2,120	2,190	9.0	1.5	B81499
Keener No. 2	do.	T	Run-of-mine		2,110	2,130	2,310	6.1	.8	B58754
Keener No. 3	do.	T	10-inch lump		2,080	2,220	2,560	2.5	.9	B81423
Do.	do.	T	10- by 6-inch		2,090	2,210	2,470	3.3	1.3	B81424
Do.	do.	T	6-inch by 0		2,050	2,380	2,530	10.3	1.6	B81425
Lewis No. 12	do.	T	2-1/2-inch lump		2,250	2,380	2,490	7.2	1.0	B56854

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OKLAHOMA (Con.)										
LeFlore County (Con.)										
Bokoshe										
Lewis No. 12	Lower Hartshorne	T	2-1/2-inch by 0		2,120	2,180	2,410	11.8	1.2	B56855
Myers	do.	T	2-1/2-inch lump		2,420	2,460	2,520	5.3	.6	B55449
Do.	do.	T	2-1/2-inch by 0		2,200	2,360	2,510	17.7	1.1	B55450
Do.	do.	T	6-inch lump		1,980	2,100	2,310	4.8	1.1	B81270
Do.	do.	T	6-inch by 0		2,150	2,230	2,530	13.3	1.3	B81271
Premium No. 17	do.	T	10-inch lump		2,320	2,370	2,620	6.5	1.5	B55456
Do.	do.	T	10- by 2-1/2-inch		2,260	2,330	2,580	7.2	1.7	B55457
Do.	do.	T	2-1/2-inch by 0		2,130	2,230	2,440	12.1	1.2	B55458
Red Bank No. 11	do.	T	Run-of-mine		2,050	2,120	2,310	10.7	.9	B57163
Russell No. 15 1/2	do.	T	2-1/2-inch lump		2,370	2,490	2,530	7.3	.9	B56724
Do.	do.	T	2-1/2-inch by 0		2,150	2,280	2,460	15.1	1.0	B56725
Do.	do.	T	4-inch lump		2,360	2,440	2,510	7.2	1.1	B82105
Do.	do.	T	4-inch by 0		2,270	2,500	2,610	24.0	.8	B82106
Safeway	do.	T	2-1/2-inch lump		2,030	2,180	2,620	3.3	.9	B58755
Do.	do.	T	2-1/2-inch by 0		2,100	2,340	2,590	10.5	1.2	B58756
Do.	do.	T	6-inch lump		2,170	2,330	2,650	2.6	.8	B82100
Do.	do.	T	6-inch by 0		2,160	2,320	2,590	6.4	1.0	B82101
Wilson No. 8	do.	T	2-1/2-inch lump		2,230	2,380	2,550	7.7	1.2	355363
Do.	do.	T	2-1/2-inch by 0		2,250	2,320	2,620	17.5	1.0	B55364
Coaldale										
Paris Purity No. 5	Upper Hartshorne	T	Run-of-mine		2,050	2,100	2,330	10.1	.8	B82770
Heavener										
Dawes	Lower Hartshorne	T	4-inch lump		2,140	2,220	2,480	6.2	.8	B58168
Do.	do.	T	4-inch by 0		2,240	2,520	2,640	9.9	1.1	B58169
Hiawatha	do.	T	2-1/2-inch lump		1,980	2,130	2,320	11.9	1.0	B58418
Do.	do.	T	2-1/2-inch by 0		2,230	2,350	2,630	18.0	1.3	B58419
Sugar Creek	do.	T	10-inch lump		2,100	2,150	2,290	8.4	1.2	B57980
Do.	do.	T	10- by 2-1/2-inch		2,120	2,230	2,370	9.5	1.3	B57981
Do.	do.	T	2-1/2-inch by 0		2,100	2,140	2,560	13.9	1.3	B57982
Milton										
Alford	do.	T	Run-of-mine		2,070	2,120	2,280	8.3	1.6	B80940
Blue Ribbon	do.	T	2-1/2-inch lump		2,310	2,360	2,780	5.1	.9	B58669
Do.	do.	T	2-1/2-inch by 0		2,110	2,190	2,350	10.9	1.1	B58670
Do.	do.	T	6-inch lump		2,330	2,360	2,400	5.4	1.5	B80879
Do.	do.	T	6-inch by 0		2,090	2,180	2,380	12.3	2.0	B80880
Davis & Swindle No. 2	do.	T	6-inch lump		2,280	2,310	2,430	5.8	1.4	B80558
Do.	do.	T	6-inch by 0		2,090	2,150	2,360	11.4	1.7	B80559
Double U	do.	T	6-inch lump		2,070	2,230	2,380	3.6	1.9	B81776
Do.	do.	T	6-inch by 0		2,080	2,270	2,480	10.6	2.0	B81777
Hygrade	do.	T	6-inch lump		2,330	2,360	2,420	6.1	2.1	B80606
Do.	do.	T	6-inch by 0		2,070	2,120	2,420	11.9	2.8	B80607
Jones No. 2	do.	T	Run-of-mine		2,040	2,130	2,560	8.5	2.0	B55091
Kleaner No. 1	do.	T	6-inch lump		2,150	2,260	2,650	2.9	.7	B81275
Do.	do.	T	6-inch by 0		2,130	2,240	2,570	7.0	.8	B81276
Lucky Strike	do.	T	Run-of-mine		1,980	2,070	2,210	6.2	1.7	B81496
Sweeney	do.	T	3-inch lump		2,140	2,260	2,510	7.6	4.0	B58559

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Do.	do.	T	3- by 2-1/2-inch		2,090	2,150	2,480	10.6	5.2	B58560	
Do.	do.	T	2-1/2-inch by 0		2,050	2,260	2,650	12.6	4.0	B58561	
White Star	do.	T	6-inch lump		2,310	2,360	2,410	4.5	.6	B55084	
Do.	do.	T	6-inch by 0		2,060	2,120	2,340	7.9	.8	B55085	
Panama											
Buck Creek	Upper Hartshorne	T	10-inch lump		2,310	2,330	2,360	6.8	.7	B58109	
Do.	do.	T	10- by 6-inch		2,260	2,300	2,320	6.3	.7	B58110	
Do.	do.	T	6-inch by 0		2,110	2,150	2,570	9.6	.8	B58111	
Buck Creek No. 15	do.	T	Run-of-mine		2,190	2,350	2,420	7.3	.8	B69519	
Hanraty	Lower Hartshorne	M		2	2,070	2,210	2,280	4.2	.8	A21923 and A21924	
Woodson	Upper Hartshorne	T	12-inch lump		2,240	2,380	2,520	6.2	.6	B55169	
Do.	do.	T	12- by 8-inch		2,250	2,370	2,520	6.6	.7	B55170	
Do.	do.	T	8- by 4-inch		2,200	2,370	2,440	6.5	.7	B55171	
Do.	do.	T	4- by 1-1/4-inch		2,250	2,320	2,480	7.1	.7	B55172	
Do.	do.	T	1-1/4- by 1-inch		2,000	2,170	2,300	9.1	.8	B55173	
Do.	do.	T	1-inch by 0		2,130	2,180	2,280	11.3	.7	B55174	
Poteau											
Dane	Cavanal	T	10-inch lump		2,150	2,470	2,540	8.2	2.4	B82102	
Do.	do.	T	10- by 4-inch		2,160	2,440	2,470	8.5	2.3	B82103	
Do.	do.	T	4-inch by 0		2,310	2,380	2,410	11.5	2.2	B82104	
Gaither No. 1	do.	T	Run-of-mine		2,160	2,440	2,490	8.3	2.2	B82771	
LeFlore	do.	M		1	2,230	2,340	2,530	11.2	4.8	A24780	
LeFlore Poteau	do.	M		2	2,070	2,480	2,560	9.0	2.7	A87203 and A87204	
Matchless	do.	T	12-inch lump		2,210	2,440	2,490	9.9	3.2	B58920	
Do.	do.	T	12- by 2-1/2-inch		2,120	2,440	2,520	10.3	3.3	B58921	
Do.	do.	T	2-1/2-inch by 0		2,360	2,410	2,510	13.9	3.9	B58922	
Poteau Machine Company	do.	M		1	2,280	2,340	2,500	9.4	3.5	A24779	
Quality No. 3	do.	T	8-inch lump		2,120	2,490	2,650	8.2	3.0	B58250	
Do.	do.	T	8- by 5-inch		2,280	2,400	2,640	8.6	3.2	B58251	
Do.	do.	T	5-inch by 0		2,300	2,440	2,700	11.5	3.5	B58252	
Royal	do.	T	8-inch lump		2,080	2,450	2,490	7.7	2.0	B58067	
Do.	do.	T	8- by 2-1/2-inch		2,080	2,490	2,510	8.0	1.9	B58068	
Do.	do.	T	2-1/2- by 1-1/4-inch		2,350	2,400	2,440	8.8	2.0	B58069	
Do.	do.	T	1-1/4-inch by 0		2,340	2,370	2,410	10.2	1.9	B58070	
Turnipseed	do.	T	8-inch lump		2,170	2,400	2,430	7.8	1.9	B57897	
Do.	do.	T	8- by 4-inch		2,100	2,360	2,430	7.6	2.0	B57898	
Do.	do.	T	4-inch by 0		2,300	2,320	2,340	8.7	1.8	B57899	
Rock Island											
Rock Island No. 1	-	T	2-1/2-inch lump		2,130	2,240	2,640	6.1	.9	B57279	
Do.	-	T	2-1/2-inch by 0		2,190	2,410	2,680	10.2	.9	B57280	
Do.	Lower Hartshorne	T	10-inch lump		2,180	2,270	2,570	3.5	.6	B90514	
Do.	do.	T	10- by 4-inch		2,180	2,290	2,570	3.0	.7	B90515	
Do.	do.	T	4-inch by 0		2,200	2,500	2,610	9.6	1.1	B90516	
Shady Point											
Covington	do.	M		3	2,220	2,290	2,360	7.0	.7	A55907 to A55909	
Spiro											
Spiro	Upper Hartshorne	T	8-inch lump		2,470	2,610	2,800	8.2	.6	D50323	
Do.	do.	T	8- by 2-inch		2,430	2,470	2,500	9.3	.6	D50324	
Do.	do.	T	2-inch by 0		2,060	2,120	2,330	10.8	.6	D50325	
Williams											
Cameron	Lower Hartshorne	T	12-inch lump		2,040	2,110	2,250	8.6	.7	B58555	
Do.	do.	T	12- by 8-inch		2,000	2,130	2,230	9.0	.6	B58556	
Do.	do.	T	8- by 2-1/2-inch		2,000	2,040	2,330	9.9	.6	B58557	
Do.	do.	T	2-1/2-inch by 0		2,180	2,230	2,550	14.8	.7	B58558	
Cameron No. 2	do.	T	Run-of-mine		2,090	2,310	2,730	7.3	.7	B69516	
McIntosh County											
Checotah											
Bluebonnet	Secor	T	5- by 2-1/2-inch (W)		2,040	2,110	2,320	10.7	4.6	E78062	
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,030	2,110	2,310	9.6	4.8	E78063	
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,050	2,190	2,370	8.4	4.5	E78064	

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OKLAHOMA (Con.)										
McIntosh County (Con.)										
Checotah										
Bluebonnet	Secor	T	3/8- by 1/8-inch (W)		2,030	2,130	2,320	8.1	3.8	E78065
Do.	do.	T	1/8-inch by 1-mm. (W)		2,040	2,150	2,330	12.7	3.8	E78066
Do.	do.	T	5-inch by 1-mm. (W)		2,070	2,160	2,360	9.2	4.2	E78067
Muskogee County										
Briartown										
Gray No. 2	Briartown	T	Run-of-mine		2,020	2,200	2,380	4.3	.8	B85409
Hicks No. 2	do.	T	do.		2,020	2,130	2,260	5.9	.5	B85411
Hicks No. 3	do.	T	do.		2,100	2,350	2,530	4.5	.6	B85412
Porum										
Leavell	-	T	do.		2,000	2,060	2,340	7.4	2.6	B85410
Silvercrest	Stigler	T	6- by 2-1/2-inch		1,920	2,000	2,310	14.0	7.4	C94986
Do.	do.	T	Run-of-mine		1,950	2,020	2,220	12.0	4.9	C94987
Trojan	-	M		1	2,260	2,340	2,470	6.8	3.8	A23791
Okmulgee County										
Henryetta										
Atlas	Henryetta	T	4-inch lump		2,000	2,050	2,420	4.2	2.2	D50689
Do.	do.	T	1- by 5/16-inch		2,100	2,260	2,620	5.6	1.9	D50690
Do.	do.	T	5/16-inch by 0		1,950	2,020	2,090	10.3	2.4	D50691
Atlas No. 2	do.	T	2-1/2-inch lump		1,990	2,020	2,080	3.7	1.6	B56903
Do.	do.	T	2-1/2- by 1-1/4-inch		1,990	2,040	2,320	4.3	1.6	B56904
Do.	do.	T	1-1/4-inch by 0		1,990	2,020	2,210	6.6	2.2	B56905
Do.	do.	M		3	1,990	2,090	2,330	5.3	2.2	B60538 to B60540
Blackstone	do.	T	2-1/2-inch lump		1,970	2,180	2,420	4.2	1.4	D50692
Do.	do.	T	1-1/4- by 1-inch		1,970	2,050	2,180	5.1	1.5	D50693
Do.	do.	T	1- by 1/8-inch		1,950	2,040	2,210	5.6	1.5	D50694
Do.	do.	T	1/8-inch by 0		1,920	2,030	2,180	12.2	1.7	D50695
Pittsburg & Midway No. 12	do.	M		2	2,050	2,130	2,200	4.9	1.1	A21775 and A21776
Star	do.	M		2	1,910	2,010	2,160	5.2	1.8	A21771 and A21772
Starr	do.	T	2-1/2-inch lump		1,910	2,060	2,180	4.7	2.5	B85761
Do.	do.	T	2-1/2- by 1-1/4-inch		1,910	2,040	2,180	4.9	1.9	B85762
Do.	do.	T	1-1/4- by 1-inch		1,910	2,040	2,180	5.8	2.2	B85763
Do.	do.	T	1- by 5/16-inch		1,870	2,060	2,180	6.3	2.6	B85764
Do.	do.	T	5/16-inch by 0		2,000	2,040	2,150	10.8	2.8	B85765
Starr No. 2	do.	T	4-inch lump		1,940	2,020	2,080	4.6	2.2	D50875
Do.	do.	T	1- by 5/16-inch		1,970	2,040	2,430	6.7	2.7	D50876
Do.	do.	T	5/16-inch by 0		1,830	2,030	2,220	11.7	3.0	D50877
Warden No. 2	do.	M		2	1,940	2,110	2,270	5.2	1.9	A21763 and A21764
Do.	do.	T	2-1/2-inch lump		2,010	2,080	2,180	6.5	2.0	B85931
Do.	do.	T	2-1/2- by 1-1/4-inch		2,000	2,100	2,400	6.0	1.9	B85932
Do.	do.	T	1-1/4-inch by 0		1,990	2,050	2,150	9.9	1.7	B85933
Whitehead No. 2	do.	M		2	2,000	2,100	2,300	5.6	1.0	A24770 and A24771
Wise-Buchanan	do.	M		3	2,020	2,130	2,220	4.9	1.1	A68380 to A68382

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Morris										
Broken Arc	do.	T	7- by 3-inch (W)		1,970	2,040	2,520	7.2	2.5	D50868
Do.	do.	T	3- by 2-1/2-inch (W)		2,000	2,030	2,230	9.6	2.4	D50869
Do.	do.	T	2-1/2- by 1-3/4-inch (W)		2,000	2,030	2,230	8.7	2.5	D50870
Do.	do.	T	1-3/4- by 1-1/4-inch (W)		1,940	2,000	2,230	10.6	2.6	D50871
Do.	do.	T	1-1/4- by 1/2-inch (W)		1,940	2,000	2,230	10.2	2.5	D50872
Do.	do.	T	5/8-inch by 10-mm. (W)		2,030	2,070	2,440	10.8	2.4	D50873
Do.	do.	T	10- by 1/2-mm. (W)		2,070	2,280	2,450	18.3	2.5	D50874
Shulter										
B & A	do.	M		3	1,980	2,120	2,390	6.7	2.8	A21783 to A21785
Coalton	do.	T	Run-of-mine		2,010	2,080	2,410	8.2	2.4	B85766
Spelter City										
Sun Valley	do.	T	2-1/2- by 1-1/4-inch		2,080	2,150	2,260	8.6	1.9	D61440
Do.	do.	T	1-1/4- by 5/16-inch (W)		2,100	2,210	2,310	7.5	1.5	D61441
Do.	do.	T	5/16-inch by 12-mesh (W)		2,100	2,260	2,420	12.9	1.5	D61442
Pittsburg County										
Adamson										
Messina	McAlester	T	2-1/2-inch lump		2,270	2,300	2,480	4.4	.5	B80295
Do.	do.	T	2-1/2- by 1-1/4-inch		2,210	2,250	2,470	4.4	.6	B80296
Do.	do.	T	1-1/4- by 3/4-inch		2,030	2,070	2,160	5.4	.5	B80297
Do.	do.	T	3/4-inch by 0		2,080	2,120	2,200	8.2	.6	B80298
R. & R. No. 1	Lower Hartshorne	T	3-inch lump		2,120	2,150	2,290	4.9	2.3	B89327
Do.	do.	T	3- by 1-1/2-inch		2,010	2,150	2,570	8.1	2.7	B89328
Do.	do.	T	1-1/2-inch by 0		2,090	2,230	2,490	15.5	3.6	B89329
Sukenis No. 4	McAlester	T	2-1/2-inch lump		2,400	2,440	2,480	4.6	.8	B80292
Do.	do.	T	2-1/2- by 1-1/4-inch		2,370	2,410	2,580	5.0	.7	B80293
Do.	do.	T	1-1/4-inch by 0		2,160	2,200	2,490	12.1	.9	B80294
Blanco										
Blanco No. 2	do.	M		1	2,220	2,300	2,390	5.8	1.0	A21463
Blanco No. 3	do.	T	2-1/2-inch lump		2,340	2,370	2,440	5.4	.8	B89759
Do.	do.	T	2-1/2- by 1-1/4-inch		2,140	2,190	2,430	11.8	1.0	B89760
Do.	do.	T	1-1/4-inch by 0		2,150	2,210	2,410	14.0	1.1	B89761
Thomas	Upper Hartshorne	M		1	2,130	2,190	2,300	9.4	1.3	A21465
Carbon										
New No. 4 Carbon	McAlester	M		1	2,320	2,360	2,440	5.7	.5	B96277
New No. 5 Carbon	do.	M		1	2,320	2,370	2,450	5.6	.9	B96283
Crowder										
Crowder	-	M		1	2,110	2,240	2,330	9.5	5.4	A23798
Dow										
Dow No. 10	McAlester	M		3	2,310	2,370	2,430	4.2	.5	A66081, A66083 and A66085
Do.	do.	T	2-1/2-inch lump		2,340	2,390	2,420	3.3	.5	B66088
Do.	do.	T	2-1/2- by 1-1/4-inch		2,090	2,150	2,180	4.2	.6	B66089
Do.	do.	T	1-1/4- by 3/4-inch		2,070	2,110	2,240	6.3	.5	B66090
Do.	do.	T	3/4-inch by 0		2,020	2,090	2,240	8.1	.7	B66091
Featherston										
McHoma	-	M		1	2,090	2,210	2,280	12.5	4.5	A23795
Haileyville										
Buroak	McAlester	T	2-1/2-inch lump		2,280	2,320	2,350	5.0	1.0	B88919
Do.	do.	T	2-1/2- by 1-1/4-inch		1,980	2,060	2,210	8.0	1.3	B88920
Do.	do.	T	1-1/4- by 1/2-inch		2,060	2,110	2,310	9.7	1.3	B88921
Do.	do.	T	1/2-inch by 0		2,040	2,100	2,280	11.7	1.3	B88922
Craig No. 2	do.	T	2-1/2-inch lump		2,330	2,360	2,440	4.6	.7	B89765
Do.	do.	T	2-1/2- by 1-1/4-inch		2,180	2,200	2,270	4.8	.8	B89766
Do.	do.	T	1-1/4- by 7/8-inch		2,050	2,100	2,230	6.8	.8	B89767
Do.	do.	T	7/8-inch by 0		2,300	2,330	2,450	8.0	.9	B89768
Pocahontas No. 2	Lower Hartshorne	M		3	2,040	2,110	2,180	7.7	1.7	A21122, A21124 and A21125
Hartshorne										
A. & P. No. 42	do.	T	2-1/2-inch lump		2,180	2,440	2,600	6.3	3.3	B89762

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OKLAHOMA (Con.)										
Pittsburg County (Con.)										
Hartshorne										
A. & P. No. 42	Lower Hartshorne	T	2-1/2- by 1-1/4-inch		2,100	2,180	2,300	8.3	3.5	B89763
Do.	do.	T	1-1/4-inch by 0		2,080	2,100	2,380	12.0	3.5	B89764
Kali Inla No. 5	do.	M		3	1,950	2,060	2,130	6.7	1.7	A21478 to A21480
Do.	do.	T	2-1/2-inch lump		2,240	2,360	2,470	5.2	2.5	B90377
Do.	do.	T	2-1/2- by 1-1/4-inch		2,180	2,270	2,380	6.2	2.6	B90378
Do.	do.	T	1-1/4- by 7/8-inch		2,020	2,080	2,360	10.2	2.2	B90379
Do.	do.	T	7/8-inch by 0		2,150	2,480	2,620	18.9	2.2	B90380
Plainview	do.	T	2-1/2-inch lump		2,150	2,180	2,510	6.1	3.6	B89325
Do.	do.	T	2-1/2-inch by 0		2,020	2,130	2,490	10.4	4.2	B89326
Regazzi & Bettine	do.	T	2-1/2-inch lump		1,980	2,080	2,370	8.5	2.3	B89769
Do.	do.	T	2-1/2- by 1-1/4-inch		2,040	2,130	2,520	9.8	2.2	B89770
Do.	do.	T	1-1/4-inch by 0		2,140	2,300	2,580	20.9	2.9	B89771
Rock Island No. 2	do.	M		4	2,010	2,120	2,210	7.5	2.0	A21469 to A21472
Krebs										
Bernardi	McAlester	T	Run-of-mine		2,090	2,140	2,260	6.8	.6	B80112
Do.	do.	M		3	2,290	2,340	2,410	4.6	.5	B88023 to B88025
Collins	do.	T	2-1/2-inch lump		2,180	2,210	2,340	5.4	.5	B79977
Do.	do.	T	2-1/2- by 1-1/4-inch		2,080	2,140	2,440	7.5	.5	B79978
Do.	do.	T	1/4-inch by 0		2,210	2,310	2,590	16.3	.6	B79979
Homer No. 4	do.	T	4-inch lump		2,230	2,270	2,310	4.5	.6	B88842
Do.	do.	T	4- by 1-1/2-inch		1,990	2,070	2,150	6.4	.8	B88843
Do.	do.	T	1-1/2-inch by 0		2,160	2,230	2,360	13.3	.9	B88844
Testa	do.	T	Run-of-mine		2,200	2,260	2,470	8.7	.4	B69514
Do.	do.	T	2-1/2-inch lump		2,250	2,340	2,580	4.8	.4	B79974
Do.	do.	T	2-1/2- by 1-1/4-inch		2,040	2,120	2,350	7.6	.6	B79975
Do.	do.	T	1-1/4-inch by 0		2,200	2,320	2,590	16.4	.4	B79976
McAlester										
Buck No. 1	Upper Hartshorne	M		2	2,020	2,180	2,270	4.8	1.4	A21268 and A21269
Collins	McAlester	M		2	2,220	2,250	2,310	5.0	.6	B32904 and B32905
Julian	do.	M		2	2,220	2,300	2,340	7.0	.9	A21131 and A21133
Do.	do.	T	2-1/2-inch lump		2,360	2,420	2,470	4.9	.5	B88845
Do.	do.	T	2-1/2- by 1-1/4-inch		2,260	2,340	2,410	4.5	.7	B88846
Do.	do.	T	1-1/4-inch by 0		2,030	2,100	2,260	11.1	1.0	B88847
Mullen	do.	T	Run-of-mine		2,210	2,260	2,350	6.5	.8	B69523
Pittsburg County No. 5	do.	M		2	2,170	2,230	2,260	6.4	.7	A21136 and A21137
Samples No. 4	do.	M		2	2,210	2,250	2,290	5.7	.9	A21128 and A21129
Southern No. 4	do.	M		2	2,190	2,220	2,240	6.8	1.5	A21272 and A21273
North McAlester										
Buck No. 5	Lower Hartshorne	M		2	2,180	2,220	2,350	6.6	.6	A21118 and A21120
Pittsburg										
McAlester-Edwards No. 2	McAlester	M		2	2,190	2,240	2,290	6.0	1.1	A21276 and A21277
Quinton										
C. E. Glenn	-	M		1	1,940	2,270	2,410	14.4	6.7	A23797
Savanna										
Caledonia	McAlester	M		1	2,030	2,060	2,090	9.3	1.8	A21467

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Rogers County										
Catoosa										
McNabb	-	M		3	2,150	2,180	2,360	5.9	.5	B84164 to B84166
Do.	Broken Arrow	T	2-1/2-inch lump		2,210	2,230	2,470	4.8	.5	D61538
Do.	do.	T	2-1/2- by 1-1/4-inch		2,260	2,360	2,420	4.8	.5	D61539
Do.	do.	T	1-1/4- by 5/8-inch		2,230	2,360	2,520	6.1	.5	D61540
Do.	do.	T	5/8-inch by 0		2,180	2,230	2,470	10.7	.8	D61541
Do.	Bevier	T	2-1/2-inch lump		2,210	2,310	2,360	6.8	.4	D61970
Do.	do.	T	2-1/2- by 1-1/4-inch		2,150	2,210	2,260	5.4	.5	D61971
Do.	do.	T	1-1/4- by 5/8-inch		1,940	2,100	2,150	5.2	.6	D61972
Do.	do.	T	5/8-inch by 0		2,310	2,440	2,490	8.9	.6	D61973
Sequoyah	-	M		3	2,130	2,240	2,490	5.1	.9	B84595 to B84597
Do.	-	T	4- by 2-1/2-inch		2,180	2,350	2,680	4.6	.7	D50189
Do.	-	T	2-1/2- by 1-1/4-inch		2,180	2,350	2,620	4.8	.6	D50190
Do.	-	T	1-1/4- by 1/4-inch		2,080	2,160	2,450	5.6	.7	D50191
Do.	-	T	1/4-inch by 0		2,220	2,290	2,390	9.0	.9	D50192
Oologah										
Sooner	-	T	5- by 2-1/2-inch		2,160	2,180	2,230	12.1	5.5	B83622
Do.	-	T	2-1/2- by 1-1/4-inch		1,910	1,960	2,070	12.4	4.9	B83623
Do.	-	T	1-1/4-inch by 0		1,900	1,950	2,170	13.0	4.5	B83624
Do.	-	T	12- by 2-1/2-inch		1,920	1,950	2,030	10.7	5.0	C29978
Do.	-	T	2-1/2-inch by 0 (W)		1,940	2,010	2,080	7.9	3.8	C29979
Do.	-	T	2- by 1-1/2-inch (W)		1,960	2,010	2,040	10.1	3.9	C29980
Do.	-	T	1-1/2-inch by 0 (W)		1,860	1,930	2,010	9.0	3.4	C29981
Sequoyah County										
Sallisaw										
Nesch	Stigler	T	8-inch lump		2,070	2,150	2,310	5.6	.5	B56649
Do.	do.	T	8- by 2-inch		2,020	2,050	2,120	4.9	.6	B56650
Do.	do.	T	2-inch by 0		2,070	2,150	2,340	6.4	.7	B56651
Tulsa County										
Jenks										
Jenks	Broken Arrow	T	2-1/2-inch lump		2,360	2,380	2,420	17.5	4.3	C30152
Do.	do.	T	2-1/2- by 1-1/4-inch		1,950	2,000	2,110	12.9	4.0	C30154
Do.	do.	T	1-1/4-inch by 0		2,070	2,130	2,230	19.8	3.3	C30155
Consumers	Dawson	M		3	1,950	2,020	2,230	10.4	4.6	B84160 to B84162
Liberty	-	M		1	2,000	2,160	2,400	8.6	4.0	A23973
Wagoner County										
Broken Arrow										
Seneca	-	M		2	2,050	2,140	2,220	8.7	3.2	A24773 and A24774
Seneca No. 2	Broken Arrow	T	10-inch lump		1,930	1,970	2,110	9.4	3.6	B55086
Do.	do.	T	10- by 2-1/2-inch		1,920	1,970	2,140	8.0	3.3	B55087
Do.	do.	T	2-1/2- by 1-1/2-inch		1,960	2,000	2,270	9.1	2.7	B55088
Do.	do.	T	1-1/2- by 1-inch		1,910	1,990	2,250	8.8	2.6	B55089
Do.	do.	T	1-inch by 0		1,920	1,950	2,190	11.2	2.6	B55090
Do.	do.	M		5	1,920	1,950	2,050	8.7	3.4	B85413 to B85417
Catoosa (Rogers County)										
Seneca No. 4	-	T	10-inch lump		2,000	2,100	2,130	6.4	.7	B53833
Do.	-	T	10- by 2-1/2-inch		2,010	2,100	2,130	5.7	.6	B53834
Do.	-	T	2-1/2- by 1-1/2-inch		2,120	2,180	2,400	5.7	.5	B53835
Do.	-	T	1-1/2- by 1-inch		2,120	2,170	2,430	7.7	.6	B53836
Do.	-	T	1- by 3/8-inch		2,050	2,180	2,450	8.2	.7	B53837
Do.	-	T	3/8-inch by 0		2,050	2,120	2,240	13.2	.7	B53838
Porter										
Porter	-	T	Run-of-mine		2,110	2,530	2,590	2.7	.7	B66298
Do.	-	T	2-inch lump		2,060	2,310	2,590	1.7	.7	B66299
Do.	-	T	2- by 1-inch		2,620	2,730	2,840	1.8	.5	B66300

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
OKLAHOMA (Con.)										
Wagoner County (Con.)										
Porter										
Porter	-	T	1-inch by 0		2,810	2,880	2,910+	3.3	.5	B66301
Do.	-	T	1- by 3/8-inch		2,810	2,910+	-	2.3	.5	B66302
Do.	-	T	3/8-inch by 0		2,840	2,910+	-	4.6	.4	B66303
Do.	-	T	3/4-inch lump		2,110	2,440	2,730	2.1	.7	B85236
Do.	-	T	3/4-inch by 0		2,010	2,120	2,450	13.7	1.6	B85237
OREGON										
Clackamas County										
Wilhoit Springs										
Madrona No. 1	-	M		1	2,370	2,420	2,570	28.5	.4	C12926
Madrona No. 2	-	M		1	2,780	2,850	2,910+	32.2	.5	C12927
Columbia County										
Saint Helens										
Prospect	-	M		1	2,160	2,230	2,440	22.7	3.3	B43483
Coos County										
Marshfield										
Martin	Newport	M		1	2,260	2,310	2,480	7.3	.5	C23446
Overland	do.	M		2	1,990	2,160	2,300	7.5	.9	B40064 and B40065
Do.	do.	M		1	2,150	2,180	2,550	10.2	.4	C18545
Do.	do.	T	3-inch lump		1,990	2,010	2,120	8.2	.5	C1633
Do.	do.	T	3- by 1-1/4-inch		2,140	2,180	2,360	10.8	.4	C1634
Do.	do.	T	1-1/4- by 1-inch		2,230	2,280	2,420	14.7	.4	C1635
Do.	do.	T	1- by 3/8-inch		2,200	2,260	2,400	13.6	.4	C1636
Southport	do.	M		1	1,970	2,000	2,090	10.5	.8	C15323
Thomas	do.	M		1	2,240	2,290	2,370	6.6	.4	C17770
Riverton										
Alpine	Riverton	M		2	2,200	2,330	2,370	9.0	.8	B40029 and B40030
S & K	do.	T	2-inch lump		2,260	2,320	2,390	6.6	.6	C3449
Do.	do.	T	2- by 3/8-inch		2,440	2,490	2,680	13.7	1.1	C3450
Do.	do.	T	3/8-inch by 0		2,550	2,640	2,800	21.0	1.4	C3451
Grant County										
Dayville										
John Day	-	M		2	2,350	2,580	2,660	21.4	1.6	A45556 and A45557
Jackson County										
Medford										
Black Bear	-	M		1	2,190	2,280	2,590	32.0	1.7	B40115

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Marion County										
Salem										
Waldo Hills	-	M		1	2,650	2,710	2,780	17.8	1.0	B40250
Multnomah County										
Corbett										
Crump	-	M		1	2,790	2,850	2,880	35.9	.4	A98043
PENNSYLVANIA										
Allegheny County										
Bairdford										
Berry	Upper Freeport	M		3	2,120	2,310	2,490	5.8	1.3	A54173 to A54175
Do.	do.	T	Run-of-mine		2,410	2,520	2,680	7.0	1.2	B27970
Do.	do.	T	5-inch lump		2,000	2,220	2,520	5.8	1.5	B64368
Do.	do.	T	5- by 2-inch		2,390	2,530	2,620	6.7	1.3	B64369
Do.	do.	T	2-inch by 0		2,150	2,230	2,460	8.0	1.6	B64370
Carnegie										
Mansfield	Pittsburgh	T	4-inch lump		2,480	2,560	2,700	4.3	1.3	A84087
Do.	do.	T	4- by 2-inch		2,600	2,670	2,760	6.9	1.4	A84088
Do.	do.	T	2-inch by 0		2,390	2,470	2,680	10.2	1.8	A84089
Castle Shannon										
Terminal No. 2	do.	T	4-inch lump		2,430	2,520	2,640	5.6	1.4	B24046
Do.	do.	T	2-inch by 0		2,330	2,490	2,700	9.8	1.7	B23977
Cliff Mine										
Schlegel No. 3	do.	T	Run-of-mine		2,470	2,540	2,650	11.0	1.8	C98862
Coverdale										
Terminal No. 8	do.	M		5	2,440	2,530	2,600	8.4	1.1	A4775 to A4779
Creighton										
Creighton	Upper Freeport	T	2-inch lump		2,180	2,340	2,650	7.9	1.6	A84090
Do.	do.	T	2-inch by 0		2,120	2,220	2,670	11.2	2.0	A84091
Culmerville										
Culmerville No. 4	do.	T	5-inch lump		2,240	2,320	2,590	6.4	1.2	B54520
Do.	do.	T	2-inch by 0		2,320	2,490	2,650	10.5	1.1	B54521
Mutual No. 3	do.	T	2-inch lump		2,150	2,520	2,580	8.6	1.6	B63466
Do.	do.	T	2-inch by 0		2,410	2,520	2,610	12.2	1.8	B63467
Curtisville										
Francis	do.	T	2-inch lump		1,950	2,200	2,490	6.9	1.8	B63047
Do.	do.	T	2- by 1-1/4-inch		2,100	2,340	2,520	7.8	1.6	B63048
Do.	do.	T	1-1/4- by 5/8-inch		2,100	2,340	2,600	8.2	1.6	B63049
Do.	do.	T	5/8-inch by 0		2,090	2,130	2,320	9.4	2.1	B63050
Dorseyville										
Deer	do.	T	Run-of-mine		2,090	2,180	2,470	9.4	1.9	C63759
Do.	do.	T	4-inch lump		2,050	2,150	2,510	6.0	1.7	E13853
Do.	do.	T	4- by 2-inch		2,530	2,610	2,760	11.7	1.6	E13854
Do.	do.	T	2- by 1-1/4-inch		2,330	2,520	2,670	12.2	1.8	E13855
Do.	do.	T	1-1/4- by 3/4-inch		2,150	2,480	2,600	12.7	1.8	E13856
Do.	do.	T	3/4-inch by 0		2,060	2,180	2,460	13.1	2.3	E13857
East Pittsburgh										
Crestas	Sewickley	M		2	2,330	2,480	2,600	11.4	2.3	85902 and 85903
Elizabeth										
Patterson No. 2	Pittsburgh	T	1-1/2-inch lump		2,350	2,560	2,810	6.1	.9	B26720
Do.	do.	T	1-1/2-inch by 0		2,310	2,480	2,840	12.4	1.1	B26721
Finleyville (Washington County)										
Piney Creek	do.	M		4	2,470	2,520	2,750	5.5	1.4	A93642 to A93645
Do.	do.	T	4-1/2-inch lump		2,480	2,620	2,850	4.1	1.2	A93648
Do.	do.	T	4-1/2- by 1-1/4-inch		2,490	2,590	2,780	7.3	1.5	A93647
Do.	do.	T	1-1/4- by 3/4-inch		2,400	2,540	2,800	9.5	1.8	A93649
Do.	do.	T	3/4-inch by 0		2,130	2,400	2,590	11.9	2.0	A93650

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Allegheny County (Con.)										
Finleyville (Washington Co.)										
Piney Creek	Pittsburgh	T	Run-of-mine		2,490	2,550	2,750	7.7	1.5	A93651
Piney Fork	do.	T	6- by 2-inch		2,720	2,810	2,910+	6.6	.9	B54618
Do.	do.	T	2-inch lump		2,640	2,760	2,910+	7.1	1.0	B54619
Do.	do.	T	3/4-inch by 0		2,530	2,620	2,790	6.9	1.0	B54620
Freeport (Armstrong County)										
Butler Junction	Upper Freeport	T	Run-of-mine		2,550	2,600	2,770	11.8	1.2	C96445
Glenshaw										
W. H. Porter	do.	M		1	2,040	2,130	2,230	7.4	2.3	83124
Harmarville										
Harmar	do.	M		1	2,440	2,470	2,570	6.1	1.0	B65852
Do.	do.	M		4	2,120	2,250	2,580	6.7	1.6	B65898 to B65901
Harwick										
Harwick	do.	M		2	2,220	2,430	2,530	7.9	1.8	A49874 and A49875
Horning										
Terminal No. 4	Pittsburgh	T	4-inch lump		2,460	2,570	2,790	5.0	1.2	B30325
Do.	do.	T	4- by 2-inch		2,580	2,660	2,890	7.2	1.2	B30326
Do.	do.	T	2- by 1-1/4-inch		2,550	2,640	2,900	11.9	1.5	B30327
Do.	do.	T	1-1/4-inch by 0		2,400	2,500	2,830	13.4	1.5	B30328
Imperial										
Champion No. 1	do.	T	6-inch lump		2,460	2,550	2,750	5.1	1.4	B26533
Cleaning Plant	do.	T	6- by 4-inch		2,420	2,550	2,750	5.6	1.4	B26534
Do.	do.	T	4- by 2-inch (W)		2,130	2,500	2,710	6.8	1.7	B26535
Do.	do.	T	2- by 1-1/8-inch (W)		2,410	2,520	2,660	7.7	1.9	B26536
Do.	do.	T	1-1/8- by 3/8-inch (W)		2,200	2,470	2,730	8.6	1.9	B26537
Clinton No. 1	do.	T	4-inch lump		2,630	2,700	2,780	9.0	1.7	B55518
Do.	do.	T	4- by 2-1/4-inch (W)		2,470	2,600	2,740	8.7	1.9	B55519
Do.	do.	T	2-1/4- by 1-1/4-inch (W)		2,510	2,570	2,730	10.6	2.2	B55520
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,550	2,610	2,780	11.8	2.2	B55521
Do.	do.	T	3/4-inch by 0		2,180	2,520	2,680	17.1	2.6	B55522
Elm	do.	M		1	2,810	2,880	2,960+	8.0	1.3	A95598
Jean No. 1	do.	T	8- by 1-1/4-inch		2,360	2,420	2,520	10.8	2.3	D34804
Do.	do.	T	1-1/4- by 3/4-inch		2,080	2,260	2,500	12.2	3.1	D34805
Do.	do.	T	3/4-inch by 0		2,100	2,150	2,470	19.3	3.3	D34806
Jean No. 2	do.	T	Run-of-mine		2,360	2,470	2,620	7.7	1.5	D34666
Indianola										
Indianola	Upper Freeport	M		3	2,270	2,390	2,570	8.3	1.2	A49993 to A49995
Ingram										
Hankey No. 2	Pittsburgh	T	Run-of-mine		2,360	2,450	2,680	14.0	2.2	D763
Library										
Champion No. 3	do.	T	4-inch lump		2,270	2,510	2,700	4.7	1.5	B27373
Do.	do.	T	4- by 2-inch		2,420	2,520	2,610	6.7	1.7	B27374
Do.	do.	T	2- by 1-1/8-inch		2,090	2,480	2,630	7.6	1.9	B27375
Do.	do.	T	1-1/8- by 3/8-inch		2,110	2,440	2,630	7.9	1.9	B27376
Do.	do.	T	1-1/8-inch by 0		2,060	2,180	2,530	10.9	2.3	B27377
Lincoln Place										
Koehler	do.	M		2	2,240	2,400	2,520	6.2	1.6	85960 and 85961

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Logans Ferry										
Logans Hill Ferry	do.	T	Run-of-mine		1,980	2,150	2,420	9.2	3.2	C63695
McKeesport										
Hubbard	Upper Freeport	T	4-inch lump		2,210	2,570	2,640	7.5	1.4	D72667
Do.	do.	T	4- by 2-inch (W)		2,470	2,680	2,730	7.7	1.2	D72668
Do.	do.	T	2- by 1-1/4-inch (W)		2,520	2,630	2,780	7.3	1.3	D72669
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,620	2,730	2,780	8.0	1.0	D72670
Do.	do.	T	3/8-inch by 0		2,130	2,420	2,570	14.4	2.2	D72671
Union Valley No. 2	Pittsburgh	M		2	2,570	2,770	2,830	7.9	1.4	82396 and 82397
Mollenauer										
Terminal No. 3	do.	T	4-inch lump		2,490	2,600	2,740	4.2	1.1	B24021
Do.	do.	T	4- by 2-inch		2,480	2,600	2,750	6.9	1.3	B24022
Do.	do.	T	2- by 1-1/4-inch		2,400	2,550	2,700	9.2	1.6	B24023
Do.	do.	T	1-1/4- by 3/8-inch		2,400	2,490	2,640	11.6	1.8	B24024
Do.	do.	T	3/8-inch by 0		2,110	2,240	2,570	10.6	1.7	B24025
Monongahela										
Mongah	do.	T	Run-of-mine		2,420	2,510	2,720	7.1	1.2	B23598
Wallace	do.	T	2-inch lump		2,540	2,660	2,840	5.5	.9	B62932
Do.	do.	T	2-inch by 0		2,310	2,400	2,650	9.0	1.3	B62933
Moon Run										
Reiter	do.	T	4-inch lump		2,030	2,100	2,470	6.3	2.2	B55045
Do.	do.	T	4- by 2-inch		2,110	2,260	2,540	7.7	2.2	B55046
Do.	do.	T	2-inch lump		2,080	2,330	2,570	7.3	2.3	B55047
Do.	do.	T	2- by 1-1/4-inch		2,100	2,450	2,610	10.1	2.3	B55048
Do.	do.	T	1-1/4-inch by 0		1,990	2,200	2,410	10.7	2.9	B55049
Morgan										
National	do.	T	4-inch lump		2,310	2,560	2,740	5.3	1.4	B63433
Do.	do.	T	4- by 1-1/4-inch		2,310	2,510	2,700	10.8	2.1	B63434
Do.	do.	T	1-1/4-inch by 0		2,130	2,260	2,590	12.5	2.3	B63435
Natrona										
Natrona	Upper Freeport	M		2	2,030	2,150	2,440	9.3	2.8	A49053 and A49054
Noblestown										
Hankey No. 1	Pittsburgh	T	Run-of-mine		2,420	2,500	2,600	9.4	1.4	D929
North Bessemer										
Renton No. 6	Upper Freeport	T	4-inch lump		2,490	2,680	2,820	5.3	.8	B62965
Do.	do.	T	4- by 1-1/4-inch		2,420	2,610	2,720	8.9	1.1	B62966
Do.	do.	T	1-1/4-inch by 0		2,180	2,270	2,510	10.8	1.6	B62967
Oakdale										
Oakdale	Pittsburgh	T	Run-of-mine		2,560	2,620	2,760	7.6	1.2	B54578
Schlegel No. 2	do.	T	do.		2,490	2,540	2,650	10.2	1.6	C98860
Watters	do.	T	do.		2,050	2,360	2,520	7.8	2.1	D34667
Oakmont										
Oakmont	Upper Freeport	T	4- by 1-1/8-inch		2,520	2,610	2,770	8.0	.9	B63344
Do.	do.	T	1-1/8-inch by 0		2,210	2,320	2,590	8.9	1.2	B63345
Pittsburgh										
Smith	Pittsburgh	M		2	2,510	2,600	2,740	6.4	1.2	85816 and 85817
Renton										
Renton No. 3	Upper Freeport	M		7	2,200	2,310	2,520	8.9	1.5	A47323 to A47329
Do.	do.	T	4-inch lump		2,590	2,690	2,760	6.4	1.0	B62946
Do.	do.	T	4- by 2-inch (W)		2,680	2,760	2,900	7.1	1.0	B62947
Do.	do.	T	2- by 1-1/2-inch (W)		2,650	2,780	2,880	7.4	1.1	B62948
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,630	2,670	2,780	7.5	1.1	B62949
Do.	do.	T	3/4- by 3/8-inch (W)		2,490	2,640	2,780	6.5	1.3	B62950
Do.	do.	T	3/8-inch by 0		2,350	2,390	2,580	7.7	1.1	B62951
Rural Ridge										
Renton No. 5	Pittsburgh	M		3	2,230	2,420	2,550	8.3	2.3	A47319 to A47321
Renton No. 8	Upper Freeport	T	5-inch lump		2,040	2,360	2,520	6.9	1.7	B63005
Do.	do.	T	5- by 1-1/4-inch		2,080	2,460	2,630	7.9	1.4	B63006
Do.	do.	T	1-1/4-inch by 0		2,180	2,260	2,590	9.3	1.8	B63007
Russelton										
Bessemer No. 2	do.	M		2	2,110	2,270	2,530	7.3	1.4	A51285 and A51308

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of [illegible]	Fusibility of Ash: [illegible]	Fusibility of Ash: [illegible]	Fusibility of Ash: [illegible]	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Allegheny County (Con.)										
Scott Haven (Westmoreland Co.)										
Ruth	Pittsburgh	T	Run-of-mine		2,660	2,780	2,910+	8.3	1.2	B26773
Scott Haven	Redstone	M		3	2,320	2,460	2,550	11.2	1.8	82399 to 82401
Springdale										
Springdale	Upper Freeport	M		3	2,170	2,290	2,370	8.6	.9	A35 to A37
Sturgeon										
Standard No. 10	Pittsburgh	T	5- by 2-inch		2,570	2,640	2,740	8.8	1.5	D24708
Do.	do.	T	2- by 1-inch		2,520	2,600	2,710	9.4	1.6	D24709
Do.	do.	T	1-inch by 0		2,520	2,600	2,750	13.5	1.6	D24710
Sutersville										
Champion No. 4	do.	T	4-inch lump		2,540	2,660	2,880	4.9	1.0	B26671
Do.	do.	T	4- by 2-inch		2,590	2,700	2,880	6.1	.9	B26672
Do.	do.	T	2- by 1-1/4-inch		2,630	2,740	2,880	5.6	.9	B26673
Do.	do.	T	1-1/4-inch by 0		2,460	2,540	2,710	6.7	1.1	B26674
Do.	do.	T	1-1/4- by 3/8-inch		2,500	2,610	2,790	10.5	1.2	B26675
Tarentum										
Haas	Upper Freeport	T	Run-of-mine		2,280	2,430	2,610	8.8	1.2	C84436
Turtle Creek										
Herold & Bowers	Pittsburgh	M		2	2,690	2,800	2,850	7.5	1.3	82221 and 82222
Universal										
Moranina	do.	M		2	2,430	2,540	-	7.7	1.2	85899 and 85900
West Elizabeth										
Rowlands	Redstone	M		2	2,560	2,740	2,820	9.8	1.2	85963 and 85964
West Newton (Westmoreland Co.)										
Ocean	Pittsburgh	T	4-inch lump		2,770	2,860	2,910+	6.2	.8	B23418
Do.	do.	T	4- by 2-1/2-inch		2,750	2,780	2,840	7.2	.9	B23419
Do.	do.	T	2-1/2-inch by 0		2,350	2,520	2,670	9.3	1.0	B23420
Wildwood										
Wildwood	Upper Freeport	M		5	2,100	2,430	2,600	7.8	1.5	A68865 to A68869
Do.	do.	M		1	2,380	2,510	2,740	7.1	1.3	A81806
Do.	do.	T	2-inch by 0		1,950	2,480	2,570	11.1	1.7	B61984
Do.	do.	T	3/8-inch by 0		2,000	2,200	2,410	11.9	2.5	B61985
Wilkinsburg										
Hall No. 5	Pittsburgh	T	Run-of-mine		2,620	2,780	2,900	8.3	1.0	C64361
Armstrong County										
Ardian										
Heffelfinger	Lower Freeport	T	do.		2,010	2,140	2,480	6.2	1.6	D89606
Apollo										
Casella	Upper Freeport	T	do.		2,320	2,500	2,650	7.5	1.4	E48521
Cherry Run	do.	T	5-inch lump		2,140	2,470	2,570	10.6	1.7	E12675
Do.	do.	T	5- by 2-inch		2,140	2,420	2,540	11.3	2.1	E12676
Do.	do.	T	2- by 3/4-inch		2,140	2,450	2,560	11.6	1.9	E12677
Do.	do.	T	3/4-inch by 0		2,140	2,450	2,560	10.0	2.0	E12678
Jackson Country Band	do.	M		1	2,040	2,260	2,480	7.5	2.8	A67145
June	do.	T	2- by 3/4-inch		1,870	2,050	2,450	10.4	4.0	D87273

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Do.	do.	T	3/4-inch by 0		1,970	2,130	2,430	13.7	3.6	D87274
King Country Band	do.	M		2	2,280	2,470	2,570	8.3	1.8	A47148 and A47149
Kiskie Valley No. 3	do.	T	Run-of-mine		2,020	2,340	2,550	11.7	2.6	B24648
Avonmore (Westmoreland Co.)										
Avonmore	Pittsburgh	M		2	2,370	2,540	2,690	9.9	1.7	85661 and 85662
Cadogan										
Bowersox No. 2	Lower Freeport	M		3	2,020	2,360	2,450	8.2	3.7	A47155 to A47157
Cadogan	Lower Kittanning	M		1	2,050	2,440	2,600	7.3	2.8	B29201
Do.	do.	T	5- by 2-inch (W)		2,140	2,500	2,610	5.8	2.1	D89177
Do.	do.	T	2- by 1-1/4-inch (W)		2,120	2,460	2,590	6.6	2.2	D89178
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,170	2,480	2,560	7.5	2.4	D89179
Do.	do.	T	5/8-inch by 0		2,050	2,220	2,500	10.3	3.0	D89180
Do.	do.	T	2-inch by 0 (W)		2,080	2,320	2,520	8.3	2.6	D89181
Do.	do.	T	1-1/4-inch by 0 (W)		2,080	2,260	2,490	9.3	2.8	D89182
Do.	do.	T	3/4- by 1/8-inch (W)		2,020	2,250	2,490	11.2	3.4	D89183
Cadogan No. 1	do.	M		4	2,160	2,450	2,550	7.6	2.5	A47162 to A47165
Cadogan No. 4	Lower Freeport	M		3	2,000	2,120	2,480	6.8	2.9	A47151 to A47153
Dover	Upper Freeport	M		3	2,410	2,530	2,590	7.1	2.0	83364 to 83366
Orpha	Lower Kittanning	T	Run-of-mine		2,010	2,240	2,360	14.1	4.2	A27571
Chickasaw										
Chickasaw No. 1	do.	M		4	2,020	2,250	2,300	7.4	3.5	83492 to 83495
Colwell										
Colwell	Upper Freeport	T	2-1/2- by 1-1/4-inch		2,590	2,690	2,810	8.5	1.1	D87983
Do.	do.	T	1-1/4-inch by 0		2,420	2,570	2,700	8.0	1.2	D87984
Pittshaw No. 16	do.	T	Run-of-mine		2,210	2,490	2,570	13.9	2.0	C63133
Reid No. 1	-	T	do.		2,070	2,320	2,530	12.5	2.7	B26940
Cowanshannoc										
Dominion No. 3	Lower Kittanning	M		3	2,020	2,170	2,300	9.7	6.0	83751 to 83753
Cowansville										
Eliza	Lower Freeport	T	Run-of-mine		2,050	2,260	2,470	6.9	2.3	D52464
Sugar Creek	Upper Freeport	T	do.		2,450	2,580	2,660	9.3	2.1	E13852
Craigsville										
Crescent	Lower Kittanning	M		2	2,010	2,430	2,510	7.1	2.8	A147 and A148
Dayton										
Gaston No. 2	Lower Freeport	T	Run-of-mine		1,960	2,070	2,400	9.7	2.8	E45779
Hollow No. 3	Upper Freeport	M		3	2,090	2,250	2,370	9.1	2.1	81579 to 81581
Dickey Station										
Pine Creek	Lower Kittanning	M		3	2,050	2,180	2,270	7.5	3.8	83488 to 83490
Echo										
Lumsted No. 4	Upper Kittanning	T	7- by 1-1/4-inch		2,520	2,610	2,750	9.6	2.1	E84642
Do.	do.	T	1-1/4- by 3/4-inch		2,450	2,570	2,720	10.2	2.2	E84643
Do.	do.	T	3/4-inch by 0		2,070	2,400	2,540	11.4	2.8	E84644
Eddyville										
Eagle	Lower Kittanning	M		3	2,030	2,170	2,290	8.6	4.3	83317 to 83319
Elderton										
Kimmel No. 1	Upper Freeport	T	2- by 1-1/4-inch		2,210	2,520	2,610	13.8	2.3	E35991
Do.	do.	T	1-1/4-inch by 0		2,210	2,490	2,590	15.3	2.3	E35992
Stanley No. 1	do.	T	Run-of-mine		2,460	2,620	2,800	11.8	1.8	E69327
Wells No. 1	do.	T	5-1/2-inch lump		2,550	2,630	2,770	10.9	1.2	E48987
Do.	do.	T	5-1/2- by 2-inch		2,490	2,580	2,690	10.8	1.4	E48988
Do.	do.	T	2- by 5/8-inch		2,440	2,560	2,720	10.9	1.3	E48989
Do.	do.	T	5/8-inch by 0		2,340	2,510	2,620	9.0	1.5	E48990
Ford City										
Banks Farm	do.	M		1	1,990	2,190	2,320	12.1	6.0	A368
Freeport										
Century No. 2	do.	M		3	2,030	2,180	2,330	8.3	2.6	83564 to 83566
Century No. 3	do.	M		2	2,100	2,370	2,450	6.9	1.9	83568 and 83569
Friedenheim										
Leet No. 1	Lower Kittanning	M		3	2,030	2,160	2,270	8.8	4.3	83484 to 83486

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Armstrong County (Con.)										
Furnace Run										
Furnace Run No. 1	Lower Kittanning	M		3	2,060	2,270	2,360	7.3	3.8	83506 to 83508
Furnace Run No. 6	do.	M		3	2,180	2,300	2,370	11.0	6.4	83502 to 83504
Mohican	Upper Freeport	T	5- by 2-1/2-inch		2,690	2,730	2,850	10.6	1.9	B26965
Do.	do.	T	2-1/2- by 1-1/2-inch		2,670	2,710	2,820	9.5	1.8	B26966
Do.	do.	T	1-1/2- by 3/8-inch		2,700	2,730	2,840	11.9	1.7	B26967
Do.	do.	T	3/8-inch by 0		2,580	2,650	2,810	13.2	2.0	B26968
Do.	do.	T	Run-of-mine		2,580	2,660	2,740	10.0	1.6	C29310
Godfrey Station										
Majestic No. 1	do.	M		2	2,000	2,150	2,280	7.1	2.3	83654 and 83655
Iselin (Indiana County)										
Paul	do.	T	Run-of-mine		2,470	2,620	2,680	10.9	1.7	D67624
Johnetta										
Johnetta	Lower Kittanning	M		3	2,070	2,240	2,320	8.8	2.8	83595 to 83597
Kelly Station										
Mansfield Country Band	Upper Freeport	M		1	1,990	2,200	2,410	6.2	1.9	A47144
Provident No. 2	do.	M		3	1,990	2,070	2,380	9.1	3.6	83623 to 83625
Kittanning										
Baxter	Lower Kittanning	M		3	2,060	2,170	2,330	7.9	3.3	83166 to 83168
Blanket Hill No. 1	Upper Freeport	T	Run-of-mine		2,140	2,470	2,580	11.1	1.8	E12877
Buffington No. 2	do.	M		2	2,130	2,390	2,450	11.0	2.5	83163 and 83164
Decker No. 2	do.	T	2-inch lump		2,540	2,620	2,710	10.2	1.3	D25230
Do.	do.	T	2-inch by 0		2,110	2,210	2,440	12.9	3.0	D25231
Decker No. 3	do.	T	2- by 1-1/4-inch (W)		2,430	2,590	2,720	9.0	1.3	E40487
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,460	2,560	2,730	8.5	1.4	E40488
Do.	do.	T	3/4- by 1/8-inch (W)		2,160	2,490	2,610	8.6	1.8	E40489
Do.	do.	T	1/8-inch by 0		1,940	2,150	2,420	14.2	3.7	E40490
Mohican No. 25	do.	T	Run-of-mine		2,310	2,580	2,680	8.0	1.8	D89037
Do.	do.	T	1-1/4-inch by 0		2,310	2,580	2,680	8.5	1.8	D89038
Do.	do.	T	7/8-inch by 0		2,220	2,550	2,680	8.0	1.9	D89039
Mohican No. 30	do.	T	1-1/4-inch by 0		2,570	2,650	2,800	10.8	1.2	D88351
Do.	do.	T	7/8-inch by 0		2,490	2,560	2,660	11.1	1.5	D88352
Mohawk	Lower Kittanning	T	Run-of-mine		2,080	2,110	2,270	12.1	5.4	D51210
Mosgrove No. 3	Upper Freeport	T	do.		2,490	2,540	2,660	11.0	2.0	D51209
Snyder No. 2	do.	T	do.		2,620	2,680	2,730	9.2	1.5	D52463
Toy	do.	M		3	2,290	2,350	2,450	10.9	3.1	83110 to 83112
Leechburg										
Armstrong	do.	M		3	1,930	2,070	2,230	7.5	2.5	85767 to 85769
Do.	do.	T	Run-of-mine		2,050	2,210	2,470	15.6	3.3	D5228
Gilpen	do.	T	do.		2,000	2,160	2,390	13.2	3.9	D6073
Maher No. 4	do.	T	do.		1,970	2,100	2,340	14.9	3.8	D6074
Park No. 1	do.	T	do.		2,180	2,500	2,570	15.0	2.4	D6072
West Leechburg No. 2	do.	M		3	1,950	2,090	2,200	7.4	3.2	85759 to 85761
Loganport										
Reed-Rudolph	Lower Kittanning	T	Run-of-mine		2,040	2,210	2,410	11.6	3.3	A50795
Mateer										
W. R. Beck	Upper Freeport	T	4-inch lump		2,000	2,210	2,390	7.4	4.0	C86527

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Do.	do.	T	4- by 2-inch		2,000	2,080	2,390	9.8	3.7	C86528
Do.	do.	T	2-inch by 0		2,000	2,130	2,390	12.6	3.4	C86529
Mateer	do.	T	2-inch lump		2,080	2,180	2,420	9.8	5.0	D51772
Do.	do.	T	2-inch by 0		1,940	2,080	2,420	13.2	4.7	D51773
McWilliams										
Himes Bank	do.	M		2	2,310	2,440	2,500	8.6	1.7	83255 and 83256
Mohawk										
Mohawk No. 3	Lower Kittanning	M		4	2,160	2,290	2,380	5.2	2.5	83497 to 83500
Mud Lick										
Pine Run No. 4	do.	T	2-inch by 0		1,970	2,180	2,300	14.2	4.9	A27359
Do.	do.	T	Run-of-mine		1,970	2,090	2,240	11.5	5.0	A27434
New Bethlehem										
Bostonia	Upper Freeport	T	5- by 2-inch		2,050	2,260	2,420	9.3	2.0	D17471
Do.	do.	T	2- by 1-inch		2,130	2,360	2,450	10.2	1.6	D17472
Do.	do.	T	1-inch by 0		2,100	2,300	2,460	10.0	1.4	D17473
Pine Run No. 6	Lower Freeport	M		2	2,150	2,200	2,240	7.8	2.9	82885 and 82886
Pine Run No. 10	Upper Freeport	M		3	2,070	2,350	2,450	7.7	2.1	82881 to 82883
Oak Hill										
Oak Hill	do.	M		3	1,990	2,130	2,240	7.8	2.6	83650 to 83652
Putneyville										
Atlas	do.	T	Run-of-mine		2,100	2,230	2,450	10.2	2.7	D17207
Hawthorne	do.	T	do.		2,100	2,260	2,500	6.0	1.4	D18170
Pittshaw No. 17	do.	T	do.		2,420	2,470	2,510	11.0	.8	C63760
Sand Hollow	do.	M		3	2,100	2,270	2,430	8.3	3.0	83321 to 83323
Rimer										
Peach Hill	Lower Kittanning	M		3	2,080	2,220	2,290	8.5	3.9	83208 to 83210
Rimerton	do.	M		3	2,080	2,320	2,410	10.6	3.9	83212 to 83214
Sagamore										
Buffalo & Susquehanna No. 17	Upper Freeport	M		3	2,040	2,290	2,420	8.1	2.4	81575 to 81577
Sagamore	do.	T	Run-of-mine		1,960	2,350	2,390	13.3	2.7	A27090
Do.	do.	T	4-inch lump		2,020	2,360	2,570	11.8	2.9	B27070
Do.	do.	T	4- by 2-inch		2,120	2,480	2,620	12.6	2.5	B27071
Do.	do.	T	2- by 1-1/4-inch		2,130	2,460	2,620	12.4	2.6	B27072
Do.	do.	T	1-1/4- by 3/4-inch		2,100	2,460	2,620	11.6	2.4	B27073
Do.	do.	T	3/4-inch by 0		2,010	2,360	2,480	10.2	2.7	B27074
Seminole										
Seminole	do.	T	1-1/4-inch by 0		2,150	2,450	-	15.8	1.5	A27435
Seminole No. 2	do.	M		2	2,360	2,410	2,540	6.7	1.5	83349 and 83350
Seminole No. 14	do.	M		3	2,390	2,510	-	5.3	1.2	83351 to 83353
Spring Church										
Mateer No. 2	do.	T	Run-of-mine		2,180	2,340	2,550	8.3	2.1	D51771
Templeton										
Templeton No. 2	do.	M		2	2,590	2,740	2,960	7.9	1.0	83205 and 83206
Thayerton										
Mahoning River	do.	M		3	2,140	2,320	2,390	5.4	1.7	83325 to 83327
Timblin (Jefferson County)										
Harmon	do.	T	Run-of-mine		2,470	2,580	2,710	9.9	1.3	E44960
Kiehl	do.	T	do.		2,160	2,380	2,530	10.7	2.1	D17768
Do.	do.	T	do.		2,040	2,190	2,430	11.6	2.5	E45554
Orf	Lower Freeport	T	do.		2,030	2,170	2,400	9.9	2.8	E45649
Vandergrift (Westmoreland Co.)										
Climax	Upper Freeport	M		2	2,030	2,210	2,320	6.6	2.3	85704 and 85705
Kepple	do.	M		3	2,070	2,230	2,330	8.6	2.3	85700 to 85702
Painter	do.	T	Run-of-mine		2,040	2,240	2,430	12.3	2.2	C85428
Park	-	T	do.		1,940	2,300	2,470	12.3	2.3	B24693
Yatesboro										
Yatesboro No. 4	Upper Freeport	T	3-inch lump		2,570	2,650	2,790	10.0	1.4	A61093
Do.	do.	T	3- by 1-1/2-inch		2,580	2,650	2,710	10.1	1.3	A61094
Do.	do.	T	1-1/2- by 3/4-inch		2,480	2,600	2,740	10.2	1.4	A61095
Do.	do.	T	3/4-inch by 0		2,350	2,480	2,620	8.9	1.5	A61096
Yatesboro No. 5	do.	T	6- by 3-inch		2,500	2,580	2,750	10.3	1.7	A64527

1 M, mine sample; T, tipple sample. 2 [illegible]

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Armstrong County (Con.)										
Yatesboro										
Yatesboro No. 5	Upper Freeport	T	3- by 1-1/2-inch		2,500	2,610	2,730	10.6	1.7	A64528
Do.	do.	T	1-1/2- by 3/4-inch		2,370	2,610	2,660	8.7	1.6	A64529
Do.	do.	T	3/4- by 3/8-inch		2,460	2,540	2,600	8.0	1.6	A64526
Do.	do.	T	3/8-inch by 0		2,060	2,330	2,430	8.1	2.3	A64525
Yatesboro No. 6	do.	T	Run-of-mine		2,100	2,360	2,470	9.8	1.9	A61108
Beaver County										
Beaver Falls										
Marcus Coal Company	-	M		1	2,820	2,890	2,980+	2.6	.6	A72593
Darlington										
Mahon	Middle Kittanning	T	2-inch lump		2,040	2,260	2,600	4.0	1.7	B54723
Do.	do.	T	Run-of-mine		2,260	2,500	2,590	5.9	1.3	B54724
do.	do.	T	2-inch by 0		2,260	2,500	2,590	5.4	.6	B54725
White	do.	T	Run-of-mine		2,400	2,470	2,750	5.9	.6	B55033
Do.	do.	T	1-1/4-inch lump		2,630	2,700	2,870	5.8	.9	B55034
Do.	do.	T	1-1/4- by 1/4-inch		2,460	2,600	2,780	5.5	.6	B55035
Do.	do.	T	1/4-inch by 0		2,200	2,300	2,670	7.6	.6	B55036
Enon Valley (Lawrence County)										
Mattish	do.	T	Run-of-mine		1,950	2,120	2,430	10.4	1.2	E16375
Red Hill No. 2	-	M		1	2,060	2,350	2,530	7.5	1.8	A73281
Zelienople (Butler County)										
Cunningham	Brookville	T	2- by 1-1/4-inch		2,000	2,270	2,600	9.3	2.3	B33540
Do.	do.	T	3/4-inch by 0		1,940	2,060	2,360	13.0	3.6	B33542
Shirley	do.	T	2- by 1-1/4-inch		2,070	2,350	2,630	10.0	2.2	B33546
Do.	do.	T	1-1/4- by 3/4-inch		2,000	2,160	2,530	10.2	2.6	B33547
Do.	do.	T	3/4-inch by 0		1,920	2,120	2,530	12.4	3.8	B33548
Do.	do.	T	Run-of-mine		2,070	2,400	2,530	11.1	2.3	B54301
Do.	do.	T	2-inch lump		2,070	2,360	2,520	9.1	2.0	B54302
Do.	do.	T	2-inch by 0		2,070	2,360	2,460	14.7	2.5	B54303
Do.	do.	T	2- by 1-1/4-inch		2,120	2,420	2,550	11.1	2.0	B54304
Do.	do.	T	1-1/4-inch by 0		2,100	2,360	2,500	16.1	3.1	B54305
Bedford County										
Hopewell										
Broadtop No. 10	Kelly	T	Run-of-mine		2,130	2,420	2,540	20.3	4.1	C99520
Seaboard	Barnett	T	do.		2,950	2,990+	-	7.6	.8	A61722
Landondale										
Keystone No. 1	do.	T	do.		2,610	2,690	2,840	12.4	1.8	D86602
Riddlesburg										
Broadtop No. 1	Kelly	T	do.		2,420	2,530	2,590	15.1	2.9	C99522
Do.	do.	T	2-inch lump		2,540	2,590	2,680	12.2	2.5	D41838
Do.	do.	T	2- by 1-1/2-inch		2,700	2,750	2,820	10.9	1.8	D41839
Do.	do.	T	1-1/2- by 1/4-inch		2,760	2,850	2,910+	9.7	1.5	D41840
Do.	do.	T	1/4-inch by 0		2,680	2,710	2,860	13.1	1.6	D41841
Brown	do.	T	Run-of-mine		2,110	2,270	2,440	17.7	3.9	C99524

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Crescent No. 1	Barnett	T	do.		2,910+	-	-	14.6	1.0	D41843
Judith No. 3	Kelly	T	4- by 2-1/2-inch		2,230	2,510	2,630	18.0	2.8	A22230
Shannil	Barnett	T	Run-of-mine		2,590	2,650	2,700	14.0	2.1	A71165
Tussey No. 1	Kelly	T	do.		2,630	2,750	2,840	12.1	1.7	A71164
Six Mile Run										
Shreeve Run No. 1	do.	T	5- by 2-1/4-inch		2,150	2,420	2,590	13.2	3.2	B59930
Do.	do.	T	2-1/4- by 1-1/8-inch		2,360	2,500	2,710	19.0	3.2	B59931
Do.	do.	T	1-1/8-inch by 0		2,510	2,590	2,800	13.1	2.6	B59932
Shreeve Run No. 2	Barnett	M		2	2,930 (1)	2,960+(1) 2,960 (1)	- 2,970+(1)	4.5	1.0	A57959 and A57960
Do.	do.	T	Run-of-mine		2,780	2,890	2,990+	9.7	1.4	A61721
Blair County										
Coupon (Cambria County)										
Cavalier	Brookville A	T	4-inch lump		2,080	2,150	2,380	12.9	5.3	D66384
Do.	do.	T	4-inch by 0		2,050	2,180	2,520	12.9	3.6	D66385
Do.	Lower Kittanning B	T	Run-of-mine		2,840	2,910+	-	9.3	.6	D66696
Do.	Middle Kittanning C	T	do.		2,000	2,210	2,520	6.9	1.8	D66697
Horseshoe	Lower Kittanning	M		2	2,740	2,910	2,960	5.8	.9	81677 and 81678
Loudon	do.	T	Run-of-mine		2,840	2,910+	-	7.2	.9	E36629
McNelis	Middle Kittanning	T	do.		1,970	2,070	2,340	10.1	3.7	E36145
Paige	Brookville	T	do.		2,050	2,230	2,490	9.8	2.2	E36146
Russet No. 2	do.	M		3	2,550 (2)	2,740+(1) 2,640 (2)	- 2,680 (2)	11.3	2.0	81680 to 81682
Gallitizen (Cambria County)										
Gallitzen	Upper Freeport	T	1-7/8-inch by 0		2,050	2,210	2,550	8.9	2.5	B5925
Glen White										
Glen White	do.	T	3/4-inch by 0		2,070	2,320	2,490	9.8	2.6	B5923
Butler County										
Branchton										
Bovard	Brookville	T	Run-of-mine		2,480	2,570	2,650	6.1	1.4	B55312
Do.	do.	T	do.		2,260	2,510	2,690	8.7	2.0	B64162
Do.	do.	T	2-inch by 0		2,260	2,510	2,690	10.4	2.0	B64163
Do.	do.	T	3/4-inch by 0		2,170	2,430	2,530	11.1	2.3	B64164
Butler										
Brier Hill	Middle Kittanning	T	Run-of-mine		2,210	2,440	2,590	10.7	2.0	B25288
Mary Elizabeth	Upper Freeport	T	do.		2,030	2,310	2,470	9.2	4.5	D61437
Oneida	Middle Kittanning	T	1-3/4-inch lump		2,380	2,490	2,620	8.2	1.8	B25284
Do.	do.	T	1-3/4-inch by 0		2,280	2,520	2,680	11.7	1.6	B25286
Tasa No. 10	do.	T	Run-of-mine		2,030	2,150	2,420	10.4	3.7	D36150
Chicora										
West Freedom No. 4	Lower Kittanning	T	do.		2,550	2,670	2,800	10.4	.8	E13452
Claytonia										
Grant No. 1	Middle Kittanning	T	4-inch lump		2,540	2,620	2,760	6.2	1.4	B55393
Do	do.	T	4- by 2-inch		2,570	2,660	2,830	8.9	1.3	B55394
Do.	do.	T	2-inch by 0		2,250	2,520	2,680	9.0	1.8	B55395
Culmerville (Allegheny County)										
Sun	Lower Freeport	T	Run-of-mine		2,300	2,470	2,650	6.9	1.1	B25445
Freeport (Armstrong County)										
Butler Junction	Upper Freeport	T	do.		2,700	2,760	2,920	9.6	.8	B27685
Kerr No. 2	do.	T	do.		2,300	2,520	2,680	9.6	1.5	B24690
Harbison Station										
McAnulty	do.	M		2	1,970	2,220	2,340	10.5	3.2	85804 and 85805
Hilliards										
Spring Valley	Brookville	T	2-inch lump		2,040	2,300	2,520	7.2	1.7	B25393
Do.	do.	T	2-inch by 0		2,000	2,220	2,460	9.7	2.3	B25394
Hooker										
Oneida No. 2	Middle Kittanning	T	Run-of-mine		1,960	2,260	2,480	12.3	4.1	B64158
Huey (Clarion County)										
Amos No. 6	Lower Kittanning	T	do.		2,100	2,440	2,570	8.5	1.9	E58463

1 M, mine sample; T, tipple sample 2 W, washed.

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1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Butler County (Con.)										
Ivywood										
Whitelaw	Upper Freeport	T	5-inch lump		1,960	2,220	2,450	6.1	1.6	B40805
Do.	do.	T	5-inch by 0		2,040	2,400	2,580	10.5	1.6	B40806
Karns City										
Kincaid	do.	T	Run-of-mine		2,410	2,590	2,750	8.6	1.6	B27780
Do.	do.	T	2- by 1-1/4-inch		2,330	2,560	2,730	7.3	1.5	B64953
Do.	do.	T	2- by 3/4-inch		2,330	2,600	2,720	7.4	1.5	B64955
Do.	do.	T	3/4-inch by 0		2,520	2,590	2,750	12.4	1.8	B64954
Kepples Station										
Kepple	do.	M		2	1,990	2,160	2,250	8.3	2.2	85774 and 85775
Lardintown										
Kutsch	do.	T	Run-of-mine		2,180	2,570	2,730	9.0	1.4	D64678
Portersville										
Stanford No. 1	Middle Kittanning	T	2-1/2-inch lump		2,080	2,350	2,510	10.8	3.1	E14075
Do.	do.	T	2-1/2- by 1-1/4-inch		1,990	2,080	2,380	13.2	5.4	E14076
Do.	do.	T	1-1/4- by 1/2-inch		2,010	2,090	2,420	11.5	4.7	E14077
Do.	do.	T	1/2-inch by 0		1,990	2,100	2,360	10.4	4.4	E14078
Stanford No. 2	do.	T	Run-of-mine		1,940	2,080	2,380	11.7	4.7	E12679
Sarver										
Coal Hollow No. 2	Upper Freeport	T	1-1/2-inch lump		2,120	2,480	2,610	7.1	1.5	E55132
Do.	do.	T	1-1/2- by 3/4-inch		2,460	2,570	2,740	12.7	1.6	E55133
Do.	do.	T	3/4-inch by 0		2,510	2,600	2,780	14.7	1.8	E55134
Custom Bank	do.	M		2	2,030	2,130	2,280	7.0	1.9	85771 and 85772
Slippery Rick										
Chutz	Middle Kittanning	T	4-inch lump		2,000	2,180	2,460	10.8	3.3	E40858
Do.	do.	T	4- by 1-1/4-inch		1,970	2,060	2,340	12.3	4.4	E40859
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,060	2,340	13.0	4.6	E40860
Do.	do.	T	3/4-inch by 0		1,920	2,060	2,340	12.3	4.2	E40861
Zelienople										
C & S	Lower Kittanning	T	Run-of-mine		2,020	2,100	2,590	9.8	4.0	B54401
Do.	do.	T	2-inch lump		1,990	2,070	2,410	13.1	6.0	B54402
Do.	do.	T	2-inch by 0		1,990	2,170	2,410	12.8	3.9	B54403
Do.	do.	T	2- by 1-inch		2,000	2,130	2,410	12.2	4.3	B54404
Do.	do.	T	1-inch by 0		1,990	2,170	2,380	15.5	3.9	B54405
C & S No. 2	Brookville	T	5-inch lump		2,030	2,310	2,500	9.1	2.3	B40739
Do.	do.	T	5- by 2-inch		2,010	2,330	2,500	11.0	2.4	B40740
Do.	do.	T	2- by 1-1/4-inch		1,940	2,310	2,470	14.8	3.0	B40741
Do.	do.	T	1-1/4- by 1-inch		1,930	2,280	2,410	16.0	3.3	B40742
Do.	do.	T	1-inch by 0		1,930	2,250	2,410	19.4	4.3	B40743
Cambria County										
Amsbry										
Delaney No. 7	Upper Freeport	T	Run-of-mine		1,980	2,330	2,450	11.8	3.0	A42597
Ashville										
Claire	do.	M		3	1,910	2,150	2,330	9.2	3.2	98859 to 98861
Bakerton										
Bakerton No. 3	Lower Kittanning	T	Run-of-mine		2,070	2,440	2,550	8.7	2.1	A70399

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Binder No. 12	do.	T	do.		2,080	2,150	2,410	9.5	2.4	A2383
Lancashire No. 15	do.	T	3/4-inch lump		2,570	2,650	2,840	8.0	1.5	D41844
Do.	do.	T	3/4- by 1/4-inch		2,570	2,620	2,680	8.7	1.8	D41845
Do.	do.	T	1/4-inch by 0		2,080	2,360	2,570	7.7	2.2	D41846
Lancashire No. 20	do.	T	Run-of-mine		2,520	2,680	2,780	7.7	1.6	D55246
McCombie No. 10	Lower Freeport	T	do.		2,130	2,220	2,430	12.1	.9	C65107
Reed No. 1	do.	T	do.		2,150	2,490	2,620	9.8	2.2	B61209
Do.	do.	T	3/4-inch by 0		2,160	2,440	2,590	8.8	2.3	B61211
Do.	do.	T	2-inch lump		2,000	2,050	2,420	11.4	3.6	D40038
Do.	do.	T	2-inch by 0		2,210	2,310	2,490	12.8	2.9	D40039
Sterling No. 1	Lower Kittanning	T	Run-of-mine		2,130	2,570	2,680	8.2	2.2	D70338
Sterling No. 6	do.	T	do.		2,730	2,910+	-	7.9	1.0	D70689
Cymbria	Lower Freeport	T	do.		2,420	2,480	2,530	8.8	1.5	B14311
Cymbria No. 1	do.	T	do.		2,470	2,680	2,840	10.9	2.0	D73192
Barnesboro										
Delta No. 2	do.	T	do.		2,100	2,510	2,610	10.1	2.1	E73869
Garman No. 5	Upper Kittanning	T	do.		2,700	2,750	2,890	15.6	1.6	C99971
Lancashire No. 12	Lower Freeport	T	do.		2,300	2,350	2,480	10.2	1.8	B30830
McCombie No. 2	do.	T	do.		2,040	2,350	2,530	12.7	3.2	C65105
Miller Run No. 3	do.	T	do.		2,410	2,470	2,530	9.6	1.6	B14312
Pennsylvania No. 17	Upper Freeport	T	1-1/4-inch by 0		2,580	2,660	2,780	7.6	1.0	A97918
Woodland No. 2	Lower Freeport	T	Run-of-mine		2,590	2,710	2,860	8.3	1.1	B30758
Beaverdale										
Cartright No. 1	do.	T	1-1/2-inch by 0		2,470	2,540	2,600	9.0	1.9	D40041
Lloydell No. 3	Lower Kittanning	T	Run-of-mine		2,910+	-	-	7.1	.6	D40042
Logan No. 4	do.	T	3-inch lump		2,470	2,570	2,730	6.9	1.8	D40044
Do.	do.	T	3- by 3/4-inch		2,470	2,540	2,730	7.0	1.4	D40045
Do.	do.	T	3/4- by 3/8-inch		2,570	2,660	2,860	6.0	1.0	D40046
Do.	do.	T	3/8-inch by 0		2,520	2,570	2,680	9.2	1.6	D40047
Logan No. 6 1/2	do.	T	Run-of-mine		2,020	2,180	2,410	10.9	2.8	B14246
Miller No. 2	do.	T	3/4-inch lump		2,020	2,140	2,440	11.1	3.1	E47500
Do.	do.	T	3/4- by 1/2-inch		2,160	2,470	2,580	13.1	2.7	E47501
Do.	do.	T	1/2-inch by 0		2,130	2,470	2,580	9.0	2.2	E47502
Bens Creek										
Hughes No. 2	do.	T	1-1/2-inch lump		2,870	2,910+	-	7.8	.9	C62262
Do.	do.	T	1-1/2-inch by 0		2,890	2,910+	-	8.9	1.1	C62263
Do.	do.	T	Run-of-mine (W)		2,760	2,870	2,910+	10.5	1.4	D65248
Blandburg										
Powell No. 1	Upper Freeport	T	Run-of-mine		2,570	2,620	2,780	12.5	1.2	D41084
Powell No. 3	Lower Freeport	T	do.		2,310	2,470	2,590	11.6	1.3	D41085
Powell No. 6	do.	T	do.		2,910+	-	-	15.3	1.4	D41086
Carrolltown										
Bakerton No. 1	Lower Kittanning	T	do.		2,360	2,600	2,680	9.2	1.9	A46654
Navy Smokeless	do.	T	do.		2,550	2,620	2,720	10.0	1.9	C65106
Colver										
Ebensburg No. 1	do.	T	Run-of-mine (W)		2,650	2,730	2,890	8.1	1.3	E68944
Crane										
Lloydell No. 4	do.	T	2-1/2-inch lump		2,910+	-	-	6.0	.7	D40048
Do.	do.	T	2-1/2-inch by 0		2,910+	-	-	6.8	.6	D40049
Cresson										
Cresson No. 9	do.	M		2	-	2,740+	-	8.6	.7	84136 and 84137
Do.	Upper Freeport	M		5	2,070	2,360	2,590	8.1	2.7	A70556 to A70560
Dunlo										
Henrietta No. 2	Lower Kittanning	T	Run-of-mine		-	2,870	-	6.4	.8	A21344
Leamer No. 1	Upper Freeport	T	do.		2,210	2,560	2,700	12.5	2.1	D92447
Lloydell No. 2	Lower Kittanning	T	do.		2,910+	-	-	6.7	.7	D40043
Windber Knob No. 2	do.	T	do.		2,750	2,900	2,910+	7.5	1.0	D60452
Windber High Fusing No. 1	do.	T	do.		2,150	2,220	2,530	8.1	1.3	C65704
Yellow Run	do.	T	do.		2,450	2,570	2,650	6.9	1.4	A33603
Dysart										
Acco No. 1	Upper Freeport	T	do.		2,180	2,510	2,620	7.7	1.4	D85748

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Cambria County (Con.)										
Ehrenfeld										
Pennsylvania No. 3	Lower Kittanning	T	Run-of-mine		2,090	2,450	2,510	7.4	1.7	A21497
Do.	do.	M		1	2,140	2,420	2,600	7.1	2.0	B39073
Do.	do.	T	5- by 3/4-inch		2,680	2,760	2,890	7.4	1.3	D41847
Do.	do.	T	3/4-inch by 0		2,680	2,780	2,910+	8.2	1.0	D41848
Pennsylvania No. 8	Lower Freeport	T	Run-of-mine		2,180	2,360	2,540	8.3	2.5	D41842
Emeigh										
Victor No. 15	do.	T	do.		2,570	2,650	2,740	9.1	1.4	A84164
Victor No. 17	do.	T	1-3/4-inch lump		2,550	2,620	2,740	8.2	1.3	A84165
Expedite										
Nonpariel No. 1	Lower Kittanning	T	Run-of-mine		2,010	2,220	2,410	6.8	2.2	A6433
Do.	do.	M		3	2,150	2,350	2,420	6.2	1.9	A6434 to A6436
Fallentimber										
Apple No. 2	Lower Freeport	T	Run-of-mine		2,080	2,370	2,500	13.5	2.5	B81913
Do.	do.	T	2-inch by 0		2,200	2,470	2,580	13.3	2.7	B81914
Apple No. 3	Upper Freeport	T	Run-of-mine		2,290	2,530	2,700	11.2	1.5	B81915
Do.	do.	T	do.		2,020	2,240	2,490	12.4	2.6	D85217
Cambria Mills No. 3	do.	T	do.		2,230	2,510	2,610	12.5	2.0	C62337
Flinton										
Colonial No. 6	do.	T	do.		2,130	2,660	2,680	9.3	1.0	C62623
Comfort Run	do.	T	do.		2,180	2,450	2,570	11.5	2.1	D40635
Rebecca No. 1	Lower Kittanning	T	do.		2,470	2,610	2,750	14.4	1.6	A51414
Frugality										
Lilly No. 8	Upper Freeport	T	do.		2,670	2,800	2,910+	10.0	.7	D65250
Gallitzin										
Bennington	Lower Kittanning	T	do.		2,910+	-	-	8.7	.9	E14938
Pennsylvania No. 10	Lower Freeport	T	do.		2,450	2,580	2,700	8.7	1.4	A61574
Do.	Upper Freeport	M		6	2,090	2,370	2,580	7.8	2.2	A70372 to A70377
Do.	do.	T	3/4-inch lump		2,190	2,510	2,580	11.9	1.8	C3815
Do.	do.	T	3/4-inch by 0		2,180	2,270	2,580	8.9	1.9	C3816
Glasgow										
Cambria Mills No. 4	Lower Kittanning	T	2- by 3/4-inch		2,640	2,760	2,910+	12.7	1.4	B81655
Do.	do.	T	2-inch by 0		2,650	2,740	2,910+	11.2	1.5	B81656
Do.	do.	T	3/4-inch by 0		2,620	2,720	2,910+	9.9	1.7	B81657
Do.	do.	T	Run-of-mine		2,620	2,690	2,780	16.8	2.4	C62336
Troxell No. 2	do.	T	do.		2,780	2,910	2,910+	10.0	1.1	E15885
Hastings										
Lanark No. 1	do.	T	do.		2,570	2,680	2,750	9.6	1.5	D40419
Oak Ridge	Lower Freeport	T	do.		2,460	2,550	2,630	8.3	1.6	A64711
Rich Hill No. 1	Upper Freeport	T	do.		2,160	2,440	2,550	9.1	1.4	A46589
Rich Hill No. 2	Lower Freeport	T	do.		2,450	2,500	2,610	7.7	1.4	A55380
Susquehanna No. 1	Upper Freeport	T	do.		2,460	2,610	2,730	10.1	.8	E47852
Susquehanna No. 2	Lower Freeport	T	do.		2,310	2,480	2,590	7.4	1.7	E47697
Johnstown										
Bethlehem No. 72	Lower Kittanning	M		5	2,140	2,420	2,610	8.7	2.6	B16482 to B16486
Bethlehem No. 73	Upper Kittanning	M		5	2,000	2,360	2,560	10.1	2.9	B21465 to B21469
Burnwell	Lower Kittanning	T	Run-of-mine		2,170	2,340	2,600	10.1	2.6	C4311
Cardiff	do.	T	do.		2,190	2,420	2,450	7.0	1.7	98858

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Franklin	do.	M		1	2,690	2,830	2,930	7.2	1.2	A77863
Johnstown No. 7	do.	T	Run-of-mine		2,000	2,330	2,600	9.9	3.5	A97394
Penn Smokeless No. 2	do.	T	do.		2,020	2,380	2,550	11.5	2.7	C26202
Region No. 1	do.	T	do.		1,940	2,260	2,490	11.8	2.9	D39543
Rigby & Shaffer No. 2	Upper Freeport	T	do.		2,570	2,620	2,730	12.6	1.3	D54989
Smokeless No. 1	Upper Kittanning	T	do.		2,180	2,240	2,300	10.6	1.9	A2336
Smokeless Shaft	Lower Kittanning	T	do.		2,160	2,390	2,600	9.6	3.1	A97388
Stineman No. 5	do.	T	2-1/2-inch lump		2,110	2,360	2,550	10.8	2.2	C27507
Do.	do.	T	2-1/2-inch by 0		2,380	2,470	2,680	8.9	1.8	C27508
Telford No. 1	Upper Freeport	T	Run-of-mine		2,180	2,450	2,570	9.2	1.5	A4076
Do.	do.	M		4	2,300	2,430	2,540	7.3	1.3	A4077 to A4080
Thermal No. 5	Upper Kittanning	T	Run-of-mine		2,140	2,440	2,590	10.8	2.9	A71390
Thermal No. 11	Lower Kittanning	T	do.		2,560	2,810	-	8.0	.7	98567
Woodvale	do.	T	do.		2,100	2,360	2,600	10.2	2.4	A97548
Lilly										
Lilly No. 3	do.	M		3	2,880 (2)	2,910+(3)	-	8.3	.9	B56500 to B56502
Do.	do.	T	Run-of-mine		2,910+	-	-	8.0	.9	D67625
Sonman No. 2	do.	T	do.		-	2,880+	-	6.9	.7	A43162
Lloydell										
Logan No. 4	do.	T	do.		2,800	2,870	-	6.4	.9	A21331
Logan No. 4 1/2	do.	T	do.		2,220	2,490	2,540	9.8	2.3	A71232
Marstellar										
Pennsylvania No. 22	Lower Freeport	T	1-1/4-inch lump (W)		2,050	2,130	2,520	9.2	2.2	D41277
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,230	2,420	2,570	8.3	2.1	D41278
Do.	do.	T	3/4-inch by 0 (W)		2,100	2,180	2,520	9.6	2.0	D41279
Mineral Point										
Seese No. 5	Upper Kittanning	T	Run-of-mine		2,410	2,500	2,570	12.1	1.4	A47029
Mountaindale										
Cambria Mills No. 2	Lower Kittanning	T	do.		2,610	2,700	2,890	10.8	1.4	D85290
Nanty-Glo										
Heisley No. 3	do.	M		6	2,300	2,400	2,540	5.9	1.5	A4092 to A4097
Do.	do.	T	Run-of-mine		2,060	2,280	2,510	8.0	2.2	A6432
Do.	do.	T	3- by 1-1/2-inch		2,310	2,470	2,680	7.0	1.8	A71279
Lincoln	do.	T	Run-of-mine		2,380	2,510	2,580	6.9	1.7	A46935
Do.	do.	T	6- by 2-inch		2,630	2,780	2,910+	6.3	1.1	A71381
Do.	do.	T	2-inch lump		2,000	2,130	2,550	8.4	2.7	D85384
Do.	do.	T	2-inch by 0		2,100	2,400	2,540	7.8	1.8	D85385
Webster No. 14	do.	T	Run-of-mine		2,010	2,250	2,490	8.4	2.6	A46953
Nettleton										
Imperial Cardiff No. 1	do.	T	1- by 3/8-inch		1,970	2,230	2,520	10.4	3.0	D56519
Do.	do.	T	3/8-inch by 0		2,080	2,280	2,560	7.5	2.2	D56520
Patton										
Ploucha	Upper Kittanning	T	Run-of-mine		2,080	2,420	2,620	14.4	3.3	D60823
Portage										
Forge No. 2	Lower Kittanning	T	do.		2,180	2,490	2,560	8.9	2.1	A61442
Hughes No. 2	do.	T	do.		-	2,800	-	7.1	.7	A21640
Do.	do.	T	1-1/4-inch by 0		2,750	2,840	2,910+	9.2	1.2	C26469
Martindale	Lower Freeport	T	Run-of-mine		2,310	2,620	2,680	10.2	2.4	D60824
Miller Shaft No. 1	Lower Kittanning	T	1-inch by 0		2,020	2,190	2,420	9.8	2.6	A61540
Do.	do.	T	Run-of-mine		2,110	2,410	2,530	9.8	2.5	A41968
Penker	Upper Kittanning	T	do.		2,150	2,520	2,620	11.8	2.4	D60826
Penker No. 3	do.	T	do.		2,300	2,530	2,610	10.6	2.0	E21930
Portage No. 2	do.	M		3	2,820	2,970+(2)	-	6.2	.8	A67843 to A67845
						2,780 (1)	2,920 (1)			
Do.	do.	T	Run-of-mine		2,600	2,870	2,910	8.3	1.2	A67842
Do.	do.	T	3/4-inch by 0		2,760	2,840	2,920+	8.7	.9	A97335
Portage No. 4	Lower Kittanning	T	Run-of-mine		2,680	2,780	2,890+	7.8	1.2	A71344
Portage No. 6	Lower Freeport	T	do.		2,150	2,370	2,570	10.0	2.5	B5822
Prospect No. 1	do.	T	do.		2,300	2,500	2,600	10.1	2.6	E80256
Sonman	Upper Kittanning	T	do.		2,600	2,670	2,760	10.7	2.0	A62132
Sonman Shaft	Upper Freeport	T	do.		2,200	2,540	2,740	8.8	1.5	A71343

1/ M, mine sample; T, tipple sample. 2/ W washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Cambria County (Con.)										
Portage										
Sonman Slope	Upper Freeport	T	2-inch lump		2,370	2,470	2,580	6.9	1.2	B14168
Do.	do.	T	1-1/4-inch by 0		2,610	2,730	2,880	7.8	1.1	B14169
Do.	do.	T	Run-of-mine		2,190	2,370	2,430	8.8	1.6	A30686
Do.	do.	M		3	2,280	2,410	2,640	6.4	1.6	B54946 to B54948
Revloc										
Revloc	Lower Kittanning	T	Run-of-mine		2,570	2,710	2,800	6.9	1.3	A33647
Do.	do.	M		1	2,180	2,470	2,610	6.7	1.7	B31697
Riverside										
Ingleside No. 5	do.	T	Run-of-mine		2,260	2,400	2,640	9.4	2.0	B60451
Do.	do.	T	1-1/2-inch by 0		2,260	2,470	2,620	8.8	2.0	B60450
Do.	do.	T	2-1/4-inch lump		2,080	2,210	2,470	12.1	2.8	C62719
Do.	do.	T	2-1/4-inch by 0		2,220	2,430	2,520	11.0	2.1	C62720
St. Benedict										
Becker	Lower Freeport	T	Run-of-mine		2,260	2,470	2,550	11.5	2.4	D15856
Becker No. 1	do.	T	do.		2,310	2,520	2,680	10.4	1.9	D53401
Smith	do.	T	do.		2,590	2,660	2,730	8.4	1.4	E44320
Springfield No. 1	Lower Kittanning	T	do.		2,650	2,770	2,900	5.9	1.1	A71277
Springfield No. 4	do.	M		3	2,390	2,540	2,680	7.4	1.6	D11610 to D11612
Victor No. 9	do.	T	Run-of-mine		2,580	2,650	2,780	7.6	1.4	A84328
St. Boniface										
Chest Creek No. 1	do.	T	do.		2,490	2,590	2,730	11.4	2.4	D85746
Elder	do.	T	do.		2,470	2,590	2,700	8.5	1.2	D15383
Miller Run No. 8	do.	T	do.		2,570	2,620	2,730	12.4	2.0	D15384
St. Michael										
Maryland Shaft	do.	T	do.		2,420	2,550	2,650	8.1	1.6	A43079
Scalp Level										
Eureka No. 37	do.	T	do.		2,410	2,560	2,710	8.3	1.3	A43018
Do.	Upper Kittanning	T	do.		2,410	2,460	2,750	9.7	1.5	C27334
Eureka No. 40	do.	T	do.		2,270	2,360	2,620	9.1	2.0	C27333
Troy No. 9	do.	T	do.		2,110	2,280	2,500	11.3	2.7	C67557
South Fork										
Argyle No. 2	Lower Kittanning	T	do.		2,700	2,790	2,850	5.3	.9	A81119
Ehrenfeld No. 3	do.	T	do.		2,160	2,460	2,610	6.0	1.6	E47499
Priscilla	Upper Kittanning	T	do.		2,350	2,520	2,750	12.7	1.9	B81994
Do.	do.	T	2-inch by 0		2,550	2,600	2,730	10.2	1.7	B81996
Riverside No. 2	do.	T	Run-of-mine		2,430	2,520	2,690	11.4	1.9	C26782
Stineman No. 1	Lower Kittanning	T	do.		2,230	2,550	2,650	10.0	2.6	D65251
Stineman No. 2	do.	T	do.		2,470	2,540	2,600	9.3	1.8	D12055
Stineman No. 3	Lower Freeport	T	do.		2,170	2,460	2,520	10.0	2.5	A71231
Stineman No. 4	Lower Kittanning	T	do.		-	2,840+	-	6.7	.6	A43215
Spangler										
Reilly No. 1	do.	T	1-1/4-inch by 0		2,490	2,570	2,680	8.0	1.5	B5972
Walnut Run	Lower Freeport	T	Run-of-mine		2,540	2,660	2,820	9.7	1.4	D85544
Twin Rocks										
Commercial No. 5	Lower Kittanning	T	1-3/4-inch by 0		2,130	2,350	2,560	7.2	2.2	A97567
Do.	do.	T	Run-of-mine		2,070	2,450	2,570	7.0	1.9	A69900

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Renglo	do.	T	do.		2,050	2,360	2,560	7.6	2.3	D24177
Van Ormer										
Peerless	Upper Freeport	T	do.		2,520	2,730	2,800	10.4	.5	D12053
Do.	Lower Freeport	T	do.		2,130	2,400	2,550	12.0	2.4	D12054
Peerless No. 5	Upper Kittanning	T	do.		2,770	2,820	2,940	9.4	.9	A90121
Vintondale										
Chest Creek No. 5	Lower Kittanning	T	do.		1,980	2,140	2,460	7.8	2.7	E23566
Chickery No. 2	do.	T	do.		2,070	2,340	2,560	9.8	3.7	D66698
Vinton No. 6	do.	T	5-1/2- by 2-inch		1,880	2,150	2,580	9.5	3.6	A81062
Do.	do.	M		1	1,940	2,250	2,570	8.7	3.5	B31606
Do.	do.	T	5- by 1-1/4-inch		2,230	2,420	2,590	10.5	4.0	D55741
Do.	do.	T	1-1/4- by 1/2-inch		2,230	2,420	2,590	9.9	3.2	D55742
Do.	do.	T	1/2-inch by 0		2,000	2,380	2,590	9.1	3.4	D55743
Wilmore										
Maryland No. 2	do.	T	Run-of-mine		2,530	2,680	2,780	7.6	1.3	E22293
Do.	do.	T	2- by 3/4-inch		2,710	2,800	2,910	6.7	1.2	E22294
Do.	do.	T	2-inch by 0		2,610	2,730	2,910	6.9	1.1	E22295
Do.	do.	T	3/4-inch by 0		2,680	2,750	2,850	7.3	1.1	E22296
Windber (Somerset County)										
Bigan No. 17	Upper Kittanning	T	Run-of-mine		2,100	2,330	2,470	12.4	2.9	D22583
Do.	do.	T	Run-of-mine (W)		2,210	2,490	2,580	9.1	2.0	D23328
Eureka No. 40	Lower Kittanning	T	Run-of-mine		2,340	2,450	2,530	8.1	1.8	A20981
Eureka No. 42	do.	T	do.		2,190	2,390	2,450	6.5	1.3	A21152
Centre County										
Clarence										
Chambers No. 10	do.	M		3	2,720	2,870	2,930	14.5	1.5	81868 to 81870
Cherry Run No. 8	Brookville	T	Run-of-mine		2,910+	-	-	10.7	1.1	D86158
Hall	Lower Kittanning	T	do.		1,920	2,120	2,470	10.6	3.7	E15556
Hawk Run (Clearfield County)										
Coaldale No. 26	do.	T	do.		2,470	2,550	2,640	14.1	1.5	B14865
Houtzdale (Clearfield County)										
Mountain Branch	do.	T	do.		2,190	2,520	2,720	9.6	2.4	B79870
Kato										
Kato No. 3	do.	T	do.		1,940	2,120	2,440	9.0	2.2	D90907
Moshannon										
Bailey No. 5	do.	T	do.		2,390	2,530	2,650	7.8	1.7	D90906
Cherry Run No. 3	do.	M		3	-	3,010+(3)	-	7.3	.7	81881 to 81883
					2,960 (1)					
Morgan No. 20	do.	M		2	2,120	2,370	2,420	8.6	2.1	81878 and 81879
Schrader No. 1	Brookville	T	Run-of-mine		2,910+	-	-	13.3	1.0	D88836
Wagner	Middle Kittanning	T	do.		2,520	2,580	2,860	10.0	1.7	B80290
Osceola Mills										
Curtin No. 2	do.	T	do.		1,970	2,180	2,490	11.6	3.9	D87986
Du Shan No. 1	Lower Kittanning	T	do.		2,800	2,910+	-	8.3	1.0	B60879
Du Shan No. 2	do.	T	2-inch lump		2,810	2,870	2,920	7.8	1.2	B60778
Do.	do.	T	2-inch by 0		2,780	2,870	2,910+	6.4	1.2	B60779
Imperial	do.	T	Run-of-mine		2,210	2,580	2,680	8.0	1.4	D86042
Viola	do.	T	do.		2,740	2,810	2,910+	9.6	1.4	E74958
Philipsburg										
Belfast	Brookville	T	do.		2,270	2,470	2,500	13.3	3.5	A64882
Bond Hill No. 2	Middle Kittanning	T	do.		2,490	2,590	2,710	11.3	1.8	E65262
Chester	Lower Kittanning	M		2	2,410	2,500	2,560	10.0	2.6	81817 and 81818
Mercer No. 1	Brookville	T	Run-of-mine		1,920	2,120	2,520	8.5	1.5	E76939
Smooth Hill No. 2	do.	M		3	2,510	2,680	2,760	11.7	2.4	81813 to 81815
Sandy Ridge										
Retort	Lower Kittanning	M		3	2,490	2,590	2,680	8.9	1.9	81820 to 81822
Snow Shoe										
Betz	Brookville	T	Run-of-mine		2,660	2,750	2,810	9.1	1.6	E77686
Do.	do.	T	1-1/4- by 1/2-inch		2,620	2,700	2,800	11.5	1.9	E77687
Do.	do.	T	1/2-inch by 0		2,080	2,460	2,590	11.8	2.6	E77688

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Centre County (Con.)										
Snow Shoe										
Carlin No. 6	Clarion	T	Run-of-mine		2,700	2,800	2,860	8.4	1.1	D45179
Cook House	Brookville	T	do.		2,910+	-	-	13.2	1.1	D67714
Do.	Lower Kittanning	T	do.		1,970	2,200	2,500	11.2	2.0	D67715
Cook House No. 1	Brookville	T	do.		2,910+	-	-	12.9	1.0	B55296
Leigh No. 3	Clarion	T	do.		2,070	2,210	2,520	9.5	3.3	D45706
Do.	Upper Kittanning	T	do.		2,470	2,550	2,660	9.0	1.5	D45709
Snowshoe No. 28	Brookville	T	do.		2,870	2,920+	-	9.4	1.1	B14395
Clarion County										
Clarion										
Harvey	Lower Kittanning	M		3	2,700	2,830	2,920	6.7	1.0	82972 to 82974
Lone Tree	do.	T	Run-of-mine		2,540	2,650	2,780	10.7	1.1	B56282
Reed Bank	Clarion	M		2	2,200	2,310	2,420	10.8	5.4	82976 and 82977
Corsica (Jefferson County)										
Moore	Lower Kittanning	T	Run-of-mine		2,650	2,770	2,910+	9.3	1.2	B56230
P. & G.	do.	T	do.		2,220	2,520	2,680	12.8	1.5	B56181
Stahlman	Clarion	T	4- by 3/4-inch (W)		2,040	2,440	2,540	14.0	3.4	E84844
Do.	do.	T	3/4- by 1/8-inch (W)		2,010	2,310	2,570	9.3	3.1	E84845
Do.	do.	T	1/8-inch by 0 (W)		1,970	2,310	2,470	9.9	3.2	E84846
Harlan (Jefferson County)										
Alton No. 7	Lower Kittanning	T	2-inch lump		2,080	2,280	2,350	13.2	2.9	A27239
Hawthorne										
Braughler	Upper Freeport	T	Run-of-mine		2,580	2,660	2,720	10.9	1.4	E40857
Kaylor (Armstrong County)										
Catfish Hollow	Lower Kittanning	T	do.		1,920	2,140	2,490	7.9	3.1	E57158
Knox										
Kahle No. 1	Clarion	T	do.		2,060	2,120	2,420	7.0	4.5	D87789
Lawsonham										
Lawsonham	Lower Kittanning	M		3	2,110	2,270	2,420	7.2	2.5	82877 to 82879
Limestone										
Dell	do.	T	2- by 1-1/4-inch		2,730	2,750	2,800	7.4	.8	D18168
Do.	do.	T	1-1/4-inch by 0		2,600	2,680	2,730	11.1	1.1	D18169
Evans No. 3	do.	T	Run-of-mine		2,700	2,840	2,910+	10.5	1.1	D71730
Do.	do.	T	do.		2,360	2,540	2,620	9.7	1.9	E80257
Frogtown	do.	T	do.		2,090	2,390	2,490	10.2	2.1	E58464
Hickory Ridge	Lower Freeport	T	do.		2,000	2,290	2,520	8.5	2.8	D64679
Leasure	Lower Kittanning	T	do.		2,050	2,420	2,570	9.9	2.7	D64681
Leasure Run No. 3	do.	T	3/4-inch lump		1,970	2,150	2,470	11.0	3.9	D17100
Do.	do.	T	3/4-inch by 0		1,990	2,100	2,440	12.8	4.3	D17101
Lime	do.	T	Run-of-mine		2,030	2,470	2,590	10.9	1.2	D64680
Mays	do.	T	do.		2,730	2,820	2,910+	8.6	.8	E69328
Lucinda										
Madden	Clarion	T	do.		1,960	2,060	2,440	8.5	4.0	E77689
Mortimer										
Keystone No. 5	Lower Kittanning	M		1	2,010	2,350	2,570	7.9	2.5	B31698

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New Bethlehem										
Iseman No. 9	Lower Freeport	T	Run-of-mine		2,210	2,380	2,430	7.2	1.6	E80258
Yarger No. 1	Upper Freeport	T	do.		2,310	2,450	2,600	12.8	1.9	D18065
Redbank										
Mortimer Run	Lower Kittanning	M		3	2,080	2,270	2,430	6.0	2.4	83019 to 83021
Rimersburg										
Bain	do.	T	Run-of-mine		1,980	2,170	2,430	10.4	4.3	E43423
Mac No. 1	do.	T	do.		1,940	2,150	2,470	10.2	3.7	D64238
Shannon										
Shannon	Upper Kittanning	T	do.		1,960	2,200	2,280	12.4	4.3	A27180
Sligo										
Elliott No. 1	Clarion	T	4- by 2-inch		2,090	2,440	2,570	13.3	2.9	C64363
Do.	do.	T	2- by 1-1/4-inch		2,180	2,580	2,620	10.9	2.3	C64364
Do.	do.	T	1-1/4-inch by 0		2,180	2,540	2,620	12.9	2.2	C64365
Huey	Lower Kittanning	T	Run-of-mine		2,140	2,450	2,540	8.8	2.4	E44136
Walco	do.	T	do.		2,350	2,470	2,520	8.5	1.8	C63895
Wallworth	Clarion	T	do.		2,030	2,340	2,420	10.3	4.0	C63606
Strattanville										
Docsmith	Lower Kittanning	T	do.		2,160	2,500	2,610	9.3	.9	B56394
Hercules	do.	T	5- by 1-1/4-inch		2,610	2,680	2,890	7.5	1.3	E56796
Do.	do.	T	2- by 1-1/4-inch		2,620	2,700	2,870	7.6	1.3	E56797
Do.	do.	T	1-1/4-inch by 0		2,580	2,650	2,730	9.1	1.5	E56798
Summerville (Jefferson County)										
Lucy	Lower Freeport	T	Run-of-mine		2,620	2,690	2,810	8.9	1.3	B56323
Clearfield County										
Allport										
Flat Run No. 1	Lower Kittanning	T	do.		2,260	2,460	2,620	9.0	2.8	D49170
Ashland										
Ashland No. 1	do.	T	do.		2,460	2,540	2,680	15.7	3.0	C29005
Seckinger No. 2	do.	T	do.		2,520	2,570	2,650	8.6	1.3	D46652
Bald Hill										
Bald Hill	Upper Freeport	T	1-inch lump		2,630	2,720	2,800	13.0	1.1	B55208
Do.	do.	T	1-inch by 0		2,260	2,510	2,640	9.1	1.4	B55209
Do.	do.	T	Run-of-mine		2,410	2,520	2,660	9.7	1.0	B55210
Beccaria										
Black Oak No. 5	Lower Freeport	T	2- by 3/4-inch		2,630	2,700	2,840	9.4	1.3	B49923
Do.	do.	T	1-1/4-inch lump		2,550	2,670	2,810	7.9	1.3	B49922
Do.	do.	T	1-1/4-inch by 0		2,680	2,800	2,900	10.0	1.1	B49920
Do.	do.	T	3/4-inch lump		2,580	2,670	2,910	9.5	1.4	B79284
Do.	do.	T	3/4-inch by 0		2,730	2,790	2,910+	8.6	1.2	B79285
Do.	do.	T	Run-of-mine		2,610	2,710	2,870	9.2	1.3	B79715
King No. 2	Upper Freeport	T	do.		2,760	2,860	2,910+	11.2	.6	E5538
Leland No. 1	do.	T	1-1/2- by 3/4-inch (W)		2,780	2,880	2,910+	10.4	1.0	E75465
Do.	do.	T	3/4- by 1/4-inch (W)		2,700	2,870	2,910+	8.0	.9	E75466
Do.	do.	T	1/4-inch by 0		2,490	2,610	2,750	8.6	1.3	E75467
Do.	Lower Kittanning	T	2- by 1-1/4-inch (W)		2,840	2,910+	-	8.5	1.0	D66382
Do.	do.	T	1-1/4-inch by 0		2,730	2,800	2,910	8.6	.9	D66383
Do.	Lower Freeport	T	2- by 1-1/4-inch (W)		2,310	2,570	2,680	10.2	2.4	D66380
Do.	do.	T	1-1/4-inch by 0		2,130	2,520	2,680	8.8	2.1	D66381
Leland No. 10	do.	T	1-1/4-inch lump		2,810	2,880	2,910+	9.1	.9	B49693
Do.	do.	T	1-1/4-inch by 0		2,880	2,910+	-	7.4	.7	B49695
Do.	do.	T	3/4-inch lump		2,750	2,810	2,910+	10.8	1.0	B79708
Do.	do.	T	3/4-inch by 0		2,790	2,840	2,910+	8.3	.9	B79712
Do.	do.	T	Run-of-mine		2,740	2,780	2,910+	8.3	1.0	B79710
Bigler										
Baily	Lower Kittanning	T	do.		2,910	2,910+	-	10.4	.8	D44775
Militant Smokeless No. 1	do.	T	do.		2,570	2,700	2,860	6.4	1.2	D88467
Wilmo No. 1	do.	T	3/8-inch lump (W)		2,360	2,620	2,700	6.3	1.5	E76080
Do.	do.	T	3/8-inch by 0		2,230	2,480	2,560	8.3	2.3	E76081
Wilmo No. 2	Middle Kittanning	T	Run-of-mine		2,020	2,400	2,550	9.5	2.4	E65390

1/ M, mine sample; T, tipple sample. 2/ W, washed

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1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Clearfield County (Con.)										
Boardman										
Lost Run No. 2	Lower Freeport	T	Run-of-mine		2,620	2,700	2,820	9.6	.8	D74107
Pooler & Duran No. 1	Lower Kittanning	T	do.		2,570	2,610	2,750	13.8	2.4	D47964
Brisbin										
Nevling	do.	T	do.		2,580	2,650	2,820	12.7	2.3	B79713
Carnwath										
Benjamin	Upper Kittanning	T	do.		2,500	2,600	2,750	8.6	.7	E45555
Central Moshannon No. 2	Lower Freeport	T	3/4-inch lump		2,220	2,450	2,650	7.3	1.4	B61098
Do.	do.	T	3/4-inch by 0		2,200	2,500	2,640	7.5	1.3	B61099
Elba No. 4	do.	T	Run-of-mine		2,420	2,520	2,650	9.6	1.3	D15255
Lakeside	Upper Kittanning	T	do.		1,920	2,140	2,490	8.4	2.3	E7187
Lost Run	Lower Freeport	T	do.		2,100	2,540	2,620	8.0	1.5	E73257
Clearfield										
Goshen Township No. 1	do.	T	do.		2,050	2,290	2,550	11.0	3.3	D44978
Hyland No. 1	Upper Kittanning	T	do.		2,100	2,480	2,540	13.2	2.8	D89610
Do.	Lower Kittanning	T	do.		1,930	2,030	2,390	10.8	3.3	D91274
Victor No. 18	Lower Freeport	T	do.		2,320	2,500	2,590	12.1	1.6	E6617
Waroquier	do.	T	do.		2,520	2,620	2,760	8.3	1.5	C67558
Coalport										
Cambria Smokeless	Lower Kittanning	T	2- by 1-inch (W)		2,780	2,890	2,910+	13.8	1.2	D56521
Do.	do.	T	1- by 3/8-inch (W)		2,680	2,780	2,890	15.5	1.5	D56522
Do.	do.	T	3/8-inch by 0		2,620	2,680	2,780	11.1	1.7	D56523
Irvona No. 10	do.	T	Run-of-mine		2,630	2,780	2,850	11.2	1.1	A27867
Do.	do.	T	do.		2,760	2,830	2,870+	11.0	1.0	A43248
Croft										
Lutz No. 1	do.	T	do.		2,050	2,240	2,550	10.7	3.3	D48414
Lutz No. 3	Upper Freeport	T	do.		2,160	2,470	2,570	13.8	1.8	D48415
Lutz No. 4	do.	T	do.		2,780	2,890	2,910+	8.0	.4	D48416
Curwensville										
Penbrook	Lower Freeport	T	6- by 1-1/4-inch		2,600	2,680	2,780	10.7	1.3	D45712
Do.	do.	T	1-1/4-inch by 0		2,640	2,730	2,880	6.7	1.0	D45713
Do.	Upper Freeport	T	2- by 3/4-inch		2,680	2,800	2,910+	14.7	.7	D45714
Do.	do.	T	3/4-inch by 0		2,520	2,620	2,780	9.0	.9	D45715
Penoyer	Lower Freeport	T	6- by 1-1/4-inch		2,360	2,470	2,640	9.6	1.5	D45710
Do.	do.	T	1-1/4-inch by 0		2,420	2,520	2,680	8.7	1.3	D45711
Robinson No. 1	do.	T	Run-of-mine		2,210	2,530	2,670	10.0	2.0	D88465
Shannon Smokeless No. 1	do.	T	do.		2,470	2,570	2,710	9.3	1.5	D45999
Thompson	Upper Freeport	T	2- by 3/4-inch		2,660	2,700	2,800	13.9	.6	D45707
Do.	do.	T	3/4-inch by 0		2,470	2,570	2,700	8.4	.7	D45708
Thurstin	do.	T	Run-of-mine		2,610	2,680	2,800	11.3	1.1	D88466
Wiley No. 1	Lower Freeport	T	do.		2,370	2,510	2,630	8.7	1.3	A46390
DuBois										
Buffalo & Susquehanna	Upper Freeport	M		5	2,280	2,410	2,490	9.2	1.3	82495 to 82499
Clear Run No. 2	Lower Freeport	T	Run-of-mine		1,900	2,140	2,450	9.0	3.5	E67073
McIntosh	do.	T	do.		1,980	2,110	2,420	7.7	2.0	E12380
Frenchville										
Aurora No. 1	Lower Kittanning	T	do.		2,790	2,870	2,910+	6.9	.9	B81491

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Aurora No. 5	Lower Freeport	T	do.		2,700	2,780	2,860	8.6	1.1	D44383
Aurora No. 6	do.	T	do.		2,100	2,280	2,500	9.9	2.9	D44381
Harrington	Lower Kittanning	T	do.		2,040	2,410	2,580	12.2	3.5	B79064
Krolick	Lower Freeport	T	do.		2,080	2,280	2,570	10.8	2.7	D44380
Grampian										
Matthews No. 7	Lower Kittanning	T	do.		2,520	2,590	2,750	7.0	.8	D89306
Grassflat										
Grassflat No. 1	do.	T	do.		2,030	2,310	2,540	9.0	3.3	C74145
Helvetia										
Helvetia	Lower Freeport	T	5-inch lump		2,180	2,430	2,580	7.5	2.0	B27233
Do.	do.	T	5- by 2-inch		2,270	2,510	2,740	8.9	1.7	B27234
Do.	do.	T	2- by 3/4-inch		2,310	2,480	2,650	10.1	1.8	B27235
Do.	do.	T	3/4-inch by 0		2,160	2,440	2,580	7.9	1.7	B27236
Stanley Shaft	do.	M		3	2,290	2,440	2,510	8.0	1.8	82501 to 82503
Heverly										
Cammos No. 2	do.	T	Run-of-mine		2,870	2,910	2,960+	7.8	.9	A71591
Hollywood										
B & M	Lower Kittanning	T	do.		2,070	2,210	2,500	9.1	3.1	D46343
Micale No. 13	do.	T	do.		2,030	2,150	2,420	10.0	4.0	D46341
Proctor No. 2	do.	T	do.		2,080	2,210	2,450	10.2	3.4	D46000
Tyler Run	do.	T	do.		2,030	2,130	2,500	10.9	3.6	D46342
Houtzdale										
Brookwood Shaft	do.	T	6- by 1-inch		2,910+	-	-	11.1	1.0	D47966
Do.	do.	T	1-inch by 0		2,910+	-	-	10.1	1.0	D47967
Clyde No. 28	do.	T	1-1/4-inch by 0		2,740	2,810	2,910	8.8	1.3	A97791
Cortland No. 3	do.	T	Run-of-mine		2,450	2,550	2,620	10.1	2.2	E6460
Franklin No. 1	Lower Freeport	T	do.		2,910+	-	-	5.6	.7	D49171
Imperial No. 3	Lower Kittanning	T	do.		2,820	2,870	2,910+	8.7	1.0	A97871
Do.	do.	T	3/4-inch by 0		2,650	2,790	2,860	8.4	1.3	A97872
Do.	Middle Kittanning	T	1-inch lump		2,390	2,550	2,700	12.2	.9	B60780
Do.	do.	T	1- by 1/4-inch		2,450	2,590	2,730	10.4	1.7	B60781
Do.	do.	T	1/4-inch by 0		2,100	2,500	2,610	9.1	2.0	B60782
Do.	Lower Kittanning	T	Run-of-mine		2,460	2,580	2,710	12.5	2.2	B60783
Imperial No. 4	do.	T	1-1/4-inch by 0		2,500	2,600	2,710	11.8	2.1	B6315
Mascot	do.	T	Run-of-mine		2,430	2,510	2,650	12.4	2.3	A41136
Red Top	Brookville	T	do.		2,140	2,440	2,520	10.3	3.2	A51391
Red Top No. 2	do.	T	do.		2,180	2,430	2,510	12.6	3.5	A32789
Superior No. 1	Upper Freeport	T	2-inch lump		2,060	2,240	2,460	12.5	3.1	B55211
Do.	do.	T	2- by 1-inch		2,060	2,260	2,490	11.1	2.7	B55212
West End	do.	T	Run-of-mine		2,410	2,570	2,650	7.2	.9	A28566
Hyde										
Shannon No. 1	Lower Freeport	T	do.		2,670	2,750	2,880	10.1	.7	B50121
Irvona										
Black Elk	do.	T	do.		1,940	2,340	2,450	9.5	2.6	A27895
Penn No. 14	Upper Kittanning	T	2-1/2-inch lump		1,970	2,070	2,400	7.6	2.3	D85744
Do.	do.	T	2-1/2-inch by 0		2,040	2,180	2,530	7.6	1.6	D85745
Janesville										
King No. 1	Upper Freeport	T	Run-of-mine		2,500	2,650	2,780	10.1	1.0	E5654
Karthaus										
Gonzales No. 1	Lower Freeport	M		3	2,670	3,010+(2) 2,420 (1)	- 2,510 (1)	6.8	1.1	82001 to 82003
Harrington	Lower Kittanning	T	Run-of-mine		2,140	2,470	2,570	12.6	2.5	C84934
Harrington No. 1	do.	M		3	2,120	2,420	2,600	9.1	3.1	B61103 to B61105
Savil	Upper Freeport	T	Run-of-mine		2,360	2,600	2,730	7.3	.6	C64834
Keewagdin										
Karth	Middle Kittanning	T	do.		2,250	2,470	2,840	10.6	2.5	B80289
Kylertown										
Baily No. 4	Lower Kittanning	T	do.		2,480	2,600	2,680	8.1	.8	D50193
Baily No. 6	Middle Kittanning	T	do.		2,910+	-	-	7.3	1.0	D48762
Keywadin	Upper Kittanning	T	do.		2,730	2,800	2,910+	10.2	.6	D48760

1 M, mine sample; T, tipple sample 2 W washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Clearfield County (Con.)										
La Jose										
Elton No. 1	Upper Kittanning	T	Run-of-mine		2,760	2,840	2,900	8.4	1.1	A46422
G & S No. 3	Lower Freeport	T	do.		2,150	2,490	2,590	11.3	2.0	D44774
Rimer No. 10	do.	T	do.		2,450	2,560	2,720	10.3	1.3	E47853
Mt. Vernon No. 1	Upper Freeport	T	do.		2,840	2,910	2,910+	5.4	.7	D49172
Do.	do.	T	do.		2,490	2,610	2,730	9.7	1.2	E11975
Lumber										
A. P. No. 1	do.	T	do.		2,490	2,590	2,700	11.0	.8	D48413
Spencer Brothers	Lower Freeport	T	do.		2,620	2,700	2,840	9.4	1.2	E66241
Luthersburg										
Jackson	Middle Kittanning	T	do.		1,990	2,410	2,470	11.9	2.5	99137
Do.	do.	M		3	1,990	2,370	2,440	8.9	2.1	99138 to 99140
Luthersburg	Lower Kittanning	M		3	2,200	2,330	2,400	10.3	2.5	82505 to 82507
McCartney										
Cindy No. 1	Lower Freeport	T	Run-of-mine		2,490	2,620	2,690	12.6	2.1	E11974
Creekside	Upper Freeport	T	do.		2,360	2,640	2,700	9.3	1.5	D62842
Harris	do.	T	do.		2,680	2,740	2,910+	13.1	1.7	D47965
Madera										
Echo Run No. 3	do.	T	do.		2,520	2,570	2,660	11.9	1.2	D15576
Hansel-Vulcan No. 1	Lower Kittanning	T	do.		2,040	2,330	2,500	10.7	2.3	E39334
Mid-Penn	Middle Kittanning	T	do.		2,470	2,540	2,640	8.1	1.2	E75468
Mid-Penn No. 5	Lower Kittanning	T	do.		2,790	2,840	2,910+	8.4	1.2	D68090
Seckinger No. 1	do.	T	do.		2,640	2,730	2,900	9.0	1.1	D46344
Yorkshire	do.	T	do.		2,090	2,530	2,610	11.0	2.6	A70400
Do.	do.	T	1-3/4- by 3/4-inch		2,130	2,480	2,570	16.1	3.7	A97873
Do.	do.	T	3/4-inch by 0		2,440	2,490	2,680	11.1	2.6	A97874
Mahaffey										
M & N	Lower Freeport	T	Run-of-mine		2,460	2,610	2,720	11.2	1.7	A46450
Stinard No. 1	Upper Freeport	T	do.		1,920	2,570	2,680	11.8	1.5	D74322
Morann										
Moran Slope	do.	T	do.		2,150	2,370	2,490	11.5	2.0	B14875
Nancy No. 2	Lower Kittanning	T	do.		2,910+	-	-	9.8	1.0	B79717
Morrisdale										
Ashman No. 4	Upper Freeport	T	do.		2,580	2,660	2,910+	10.9	1.5	B79282
Baily No. 3	Lower Kittanning	T	do.		2,180	2,520	2,680	14.4	3.3	D48761
Cooper Smokeless	do.	T	do.		2,020	2,320	2,500	10.2	3.5	B81492
Cunard	do.	M		6	2,380	2,950+(1) 2,430 (5)	- 2,560 (5)	7.8	2.2	A4366 to A4371
Cunard Slope	do.	T	Run-of-mine		2,530	2,610	2,710	9.3	1.7	A89215
Cunard Slope No. 1	do.	T	do.		1,940	2,130	2,450	7.7	2.7	A4175
Maxton Slope No. 1	do.	T	3/4- by 1/4-inch (W)		2,310	2,570	2,620	8.4	2.1	D67344
Do.	do.	T	Run-of-mine (W)		2,150	2,420	2,570	10.1	2.6	D47017
Morrisdale No. 1	do.	M		4	2,400	2,590	2,680	8.3	1.9	A4361 to A4364
Do.	do.	T	Run-of-mine		2,630	2,700	2,840	7.6	1.3	A89214
Morrisdale No. 3	do.	M		5	2,060	2,310	2,470	7.4	2.5	A4355 to A4359
Do.	do.	T	Run-of-mine		2,120	2,450	2,580	8.3	2.3	A65196
Tri-Shannon No. 1	do.	T	do.		2,880	2,910+	-	6.1	.7	B49698

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Tri-Shannon No. 2	do.	T	do.		1,920	2,380	2,580	9.6	2.5	A49926
Do.	do.	T	1-1/4-inch by 0		2,100	2,470	2,640	9.4	2.2	A49927
Munson										
Colorado No. 3	do.	T	Run-of-mine		1,970	2,260	2,490	12.5	4.8	A64902
Ghen	do.	M		4	2,230	2,440	2,540	9.5	3.3	81672 to 81675
Krist No. 5	do.	T	Run-of-mine		2,030	2,310	2,490	11.0	3.5	C99738
New Millport										
Central Moshannon No. 3	Lower Freeport	T	do.		2,520	2,650	2,780	9.1	1.0	D87478
Osceola Mills										
Baltic Shaft	Lower Kittanning	T	do.		2,430	2,540	2,650	9.0	1.8	A61854
Burtner No. 2	Brookville	T	do.		2,300	2,390	2,560	13.1	2.5	A32786
Center	Upper Freeport	T	do.		2,030	2,300	2,370	10.2	2.2	A27981
Daywood No. 1	Lower Freeport	T	do.		2,130	2,390	2,510	6.9	1.9	B14831
Du Shan No. 1	Lower Kittanning	T	do.		2,490	2,620	2,780	9.1	1.9	E79563
Imperial No. 11	do.	T	do.		2,700	2,790	2,910+	9.8	1.2	B14424
Imperial No. 12	do.	T	do.		2,670	2,760	2,880	9.3	1.3	B14965
Peerless No. 4	do.	T	do.		2,450	2,680	2,740	9.0	1.5	A21754
Penn No. 8	do.	T	do.		2,420	2,520	2,650	10.1	3.9	E74959
Penn No. 9	do.	T	3-inch by 0		2,420	2,520	2,650	14.0	3.1	C99745
Roslyn	do.	T	Run-of-mine		2,210	2,530	2,630	10.8	2.8	D87987
Philipsburg (Centre County)										
Alden No. 1	do.	M		3	2,100	2,550	2,610	13.7	3.3	90066 to 90068
Ashman No. 6	Upper Freeport	T	Run-of-mine		2,070	2,170	2,570	7.0	.5	B79283
Bookwalter No. 1	Lower Freeport	T	do.		2,680	2,770	2,900	10.0	.9	E38582
Maxton Slope	Lower Kittanning	T	do.		2,140	2,530	2,680	12.7	2.5	B79281
Morrisdale No. 2	Middle Kittanning	T	do.		2,620	2,780	2,840	11.5	1.9	D49173
Reading No. 2	Upper Kittanning	T	do.		2,030	2,310	2,550	11.3	3.7	A46818
Pottersdale										
Albert No. 2	Lower Kittanning	T	do.		2,460	2,600	2,780	8.0	.7	B79063
Eagle Rock Colliery	Middle Kittanning	T	do.		2,100	2,470	2,570	11.7	2.5	D89305
Do.	Upper Kittanning	T	do.		2,610	2,720	2,810	8.9	.8	E37812
Ramey										
Bulah Shaft No. 1	Lower Freeport	T	do.		2,300	2,390	2,610	9.6	1.8	A32753
Do.	do.	T	1-inch by 0		2,440	2,550	2,700	8.2	1.5	A32803
River View										
A-18-D	do.	T	Run-of-mine		2,520	2,620	2,750	8.6	1.2	B6255
Do.	do.	T	3/4-inch by 0		2,450	2,570	2,700	7.9	1.5	B14964
Rockton Station										
Rockton	Lower Kittanning	T	Run-of-mine		1,970	2,150	2,450	11.4	2.8	D91275
Rolling Stone										
Holly No. 4	do.	T	do.		2,000	2,130	2,470	12.3	3.9	D87787
Do.	do.	T	do.		1,970	2,220	2,510	10.2	3.4	D88650
Shawville										
Aurora No. 2	Upper Freeport	T	do.		1,970	2,150	2,480	10.0	2.6	B81705
Kyler No. 3	Lower Kittanning	T	do.		2,140	2,480	2,600	9.7	2.1	E38583
Smithmill										
Black Oak No. 1	do.	T	do.		2,730	2,780	2,910+	12.2	1.6	B79718
Viola No. 1	do.	T	do.		2,910+	-	-	12.7	1.0	B79383
Viola No. 3	Upper Freeport	T	do.		2,520	2,580	2,860	10.9	1.6	B79438
Smokerun										
Clyde No. 23	Lower Kittanning	T	do.		2,820	2,870	2,910+	8.2	1.0	B14832
Clyde No. 28	do.	T	do.		2,790	2,860	2,910+	8.6	1.1	B14876
Glenmar No. 1	Lower Freeport	T	do.		2,470	2,620	2,690	7.1	1.2	A23041
Surveyor										
Goshen Valley	Upper Freeport	T	do.		2,560	2,660	2,790	9.7	.8	B49697
Lingle No. 1	Lower Kittanning	T	do.		2,520	2,570	2,730	9.0	2.0	D64011
Martell	Upper Kittanning	T	do.		2,070	2,390	2,560	9.0	2.5	D88837
Penoyer No. 1	Lower Kittanning	T	do.		1,960	2,160	2,520	12.6	4.3	E65692
Shawville	do.	T	do.		2,050	2,230	2,470	11.2	2.5	D64012
Tyler										
Proctor No. 2	do.	T	5- by 2-inch (W)		1,900	2,170	2,470	9.7	3.2	E39326

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Clearfield County (Con.)										
Tyler										
Proctor No. 2	Lower Kittanning	T	2- by 1-1/4-inch (W)		2,020	2,250	2,440	9.7	2.6	E39327
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,000	2,180	2,440	8.8	2.5	E39328
Do.	do.	T	3/4- by 3/8-inch (W)		2,040	2,160	2,470	7.7	2.3	E39329
Do.	do.	T	3/8-inch by 0		2,040	2,330	2,500	11.2	3.1	E39330
Proctor No. 3	do.	T	1-1/4-inch lump		1,970	2,230	2,380	12.0	3.6	D16916
Do.	do.	T	1-1/4-inch by 0		1,920	2,130	2,440	10.0	3.1	D16917
Do.	do.	T	4- by 2-inch (W)		1,910	2,140	2,460	8.0	2.2	E39331
Do.	do.	T	2- by 1/2-inch (W)		2,000	2,220	2,500	7.5	1.8	E39332
Do.	do.	T	1/2-inch by 0		2,000	2,150	2,460	10.7	3.1	E39333
Tyler No. 14	do.	T	2-inch lump		2,030	2,260	2,470	10.4	3.9	D45996
Do.	do.	T	2- by 3/4-inch		2,020	2,310	2,470	10.2	3.4	D45997
Do.	do.	T	3/4-inch by 0		2,030	2,360	2,500	10.4	3.0	D45998
Wallaceton										
Stanley No. 1	do.	T	Run-of-mine		2,050	2,330	2,500	12.9	3.6	E78435
West Decatur										
Red Jacket No. 4	Brookville	T	do.		2,330	2,570	2,650	14.0	2.1	A27980
Westover										
Springfield No. 6	Upper Kittanning	M		3	2,730 (1)	2,910+(2) 2,790	- 2,860 (1)	6.3	1.0	D12280 to D12282
Winburne										
Ogle No. 9	Lower Kittanning	M		6	2,140	2,470	2,630	7.7	2.6	81746 to 81751
Do.	do.	T	Run-of-mine		2,000	2,270	2,480	10.7	3.0	E11976
Pennsylvania No. 46	do.	M		4	2,170	2,380	2,550	8.8	3.3	C68324 to C68327
Do.	do.	T	4- by 3/4-inch (W)		2,230	2,570	2,650	7.3	2.1	D45849
Do.	do.	T	3/4-inch by 0 (W)		2,090	2,460	2,560	8.3	2.3	D45850
Woodland										
Bradford No. 1	do.	T	Run-of-mine		2,200	2,530	2,710	8.2	1.5	B49924
Do.	do.	T	2-inch by 0		2,200	2,520	2,710	8.9	1.6	B49925
Carson No. 1	Middle Kittanning	T	Run-of-mine		1,900	2,100	2,420	12.0	3.9	D66995
Landsberry No. 5	Lower Freeport	T	3/4-inch lump		2,530	2,650	2,750	21.1	.8	C28698
Do.	do.	T	3/4- by 3/8-inch		2,570	2,690	2,760	23.6	.5	C28699
Do.	do.	T	3/8-inch by 0		2,520	2,580	2,730	23.0	.8	C28700
Do.	do.	T	Run-of-mine		2,630	2,720	2,810	10.2	.9	E46184
Long Run No. 1	Upper Kittanning	T	do.		2,190	2,420	2,600	15.2	4.0	D18903
Orchard No. 6	Middle Kittanning	T	do.		2,220	2,570	2,790	12.4	4.7	B78614
Woolridge No. 2	Lower Kittanning	T	do.		2,100	2,320	2,570	15.6	4.0	B78613
Clinton County										
Bitumen										
Kettle Creek No. 8	do.	M		3	2,070	2,210	2,330	9.7	3.5	82005 to 82007
Coleman Siding										
Big Moshannon	Lower Freeport	T	Run-of-mine		2,400	2,580	2,740	9.2	1.7	A46321
Keating										
Penbrook No. 1	Upper Kittanning	T	do.		1,950	2,210	2,490	9.3	2.4	E68945
Renova										
S. B. & S.	Middle Kittanning	T	do.		2,000	2,210	2,470	11.8	2.7	D61648

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Spruce										
Spruce	Lower Freeport	T	do.		2,150	2,400	2,570	7.7	2.1	E6743
Westport										
Batschelet	Lower Kittanning	T	do.		2,670	2,760	2,910+	13.4	1.0	E7923
Do.	do.	T	do.		1,970	2,220	2,500	11.5	4.1	E7924
Westport	do.	T	Run-of-mine (W)		2,140	2,500	2,570	8.1	2.2	E76677
Do.	do.	T	3/16-inch lump (W)		2,120	2,390	2,550	6.9	1.9	E76678
Do.	do.	T	3/16-inch by 0		2,080	2,360	2,550	8.9	2.3	E76679
Elk County										
Brandy Camp										
Elk	Lower Kittanning	M		2	2,300	2,490	2,630	6.4	1.5	A34427 and A34428
New	Middle Kittanning	T	2-1/2- by 1-1/4-inch		2,310	2,550	2,650	7.2	1.8	D47961
Do.	do.	T	1-1/4- by 1/2-inch		2,570	2,620	2,750	7.1	1.6	D47962
Do.	do.	T	1/2-inch by 0		2,250	2,530	2,640	9.4	1.9	D47963
Shawmut No. 3	Lower Kittanning	M		3	2,360	2,470	2,590	8.4	1.6	A34420 to A34422
Snuff	do.	T	2-1/2- by 1-1/4-inch		2,150	2,360	2,500	10.4	2.1	D47958
Do.	do.	T	1-1/4- by 1/2-inch		2,150	2,500	2,590	9.7	2.4	D47959
Do.	do.	T	1/2-inch by 0		2,150	2,380	2,540	10.6	2.5	D47960
Brockport										
Oyster No. 64	Upper Kittanning	M		2	2,100	2,250	2,410	12.3	1.5	A34424 and A34425
Caledonia										
Proctor No. 3	Lower Kittanning	T	1-1/4-inch lump		2,080	2,290	2,620	14.0	3.6	D46299
Do.	do.	T	1-1/4-inch by 0		2,130	2,310	2,540	12.7	3.1	D46300
Dagus Mines										
Kyler	do.	M		2	1,990	2,400	2,570	7.8	3.0	A34581 and A34582
Elbon										
Brandy Camp	do.	M		2	2,190	2,410	2,500	8.6	2.2	A34588 and A34589
Force										
Proctor No. 1	do.	T	2-inch lump		2,010	2,260	2,420	10.1	3.3	B27137
Do.	do.	T	2- by 5/8-inch		2,030	2,290	2,470	11.5	3.3	B27138
Do.	do.	T	5/8-inch by 0		2,010	2,360	2,520	10.9	3.1	B27139
Proctor No. 2	do.	M		1	2,030	2,390	2,670	5.4	2.0	A77862
Maplehurst										
Limestone	do.	M		3	2,090	2,410	2,500	7.8	2.5	A34584 to A34586
Midmont										
Midmont	do.	T	4- by 2-inch (W)		2,570	2,620	2,730	8.3	2.3	D62838
Do.	do.	T	2- by 1-inch (W)		2,570	2,680	2,780	8.2	2.3	D62839
Do.	do.	T	1- by 1/8-inch (W)		2,360	2,640	2,680	7.4	2.4	D62840
Do.	do.	T	1/8-inch by 0 (W)		2,230	2,620	2,780	14.8	3.0	D62841
Penfield										
Gail	Lower Freeport	M		3	2,020	2,380	2,460	6.1	2.0	99142 to 99144
Fayette County										
Alverton										
Doris	Sewickley	T	Run-of-mine		2,410	2,560	2,780	10.9	2.6	A95921
Amend										
Margaret No. 2	do.	T	do.		2,050	2,210	2,420	12.6	4.0	C88209
Arnold City										
Arnold	Pittsburgh	T	2-inch lump		2,750	2,800	2,930	7.8	.8	B23548
Do.	do.	T	2-inch by 0		2,480	2,600	2,840	9.1	1.1	B23549
Belbois										
Belbois	Waynesburg	M		1	2,210	2,370	2,450	11.0	1.5	84987
Cherry Camp	do.	M		1	2,740	2,850	2,900	14.6	1.3	84986
Brownsville										
Albright Farm	do.	M		1	2,230	2,530	2,680	14.0	2.9	A95404
Do.	do.	T	Run-of-mine		2,490	2,570	2,680	16.1	2.7	A95405
Pike	Pittsburgh	T	2-inch lump		2,670	2,740	2,890	8.1	1.2	B23953
Do.	do.	T	1/2- by 7/8-inch		2,380	2,530	2,750	9.1	1.6	B23956
Do.	do.	T	Run-of-mine		2,630	2,700	2,840	8.6	1.3	B64367

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Fayette County (Con.)										
Chestnut Ridge										
Royal	Pittsburgh	T	Run-of-mine		2,680	2,770	2,860	8.7	1.0	B23879
Do.	do.	T	4-inch lump		2,720	2,870	2,910+	7.9	.8	B23881
Do.	do.	T	4-inch by 0		2,650	2,740	2,850	9.0	1.1	B23882
Confluence (Somerset County)										
Flanigan Farm Bank	-	M		1	2,030	2,400	2,540	15.3	3.2	B45391
Rodshaver Farm Pit	-	M		1	2,050	2,380	2,630	12.0	2.2	B45393
Connellsville										
Campbell No. 2	Lower Kittanning	T	Run-of-mine		2,380	2,460	2,550	14.8	2.8	A41261
Rich Hill	do.	T	do.		1,970	2,220	2,490	9.6	2.7	E42577
Darant										
Hankins	Sewickley	T	do.		2,210	2,550	2,720	15.8	3.5	C73164
Dunbar										
Ainsley	Lower Freeport	M		2	2,590	2,770	2,960	13.2	1.3	81339 and 81340
Coffman	Upper Freeport	M		1	2,000	2,180	2,510	6.7	3.6	81494
Do.	Lower Kittanning	M		1	1,950	2,060	2,230	10.4	4.4	81495
Cow Rock	Lower Freeport	T	Run-of-mine		2,500	2,580	2,750	13.1	2.0	D92910
Furnace No. 2	Upper Freeport	M		3	2,220	2,420	2,530	13.4	2.7	81471 to 81473
Hairre	Waynesburg	M		2	2,330	2,570	2,680	23.1	3.3	81336 and 81337
United Refractories	Lower Kittanning	M		1	2,220	2,370	2,440	8.1	1.9	81496
Fairchance										
Custom Bank	Pittsburgh	M		2	2,750	2,860	2,910	7.3	1.1	84840 and 84841
Reyarmon	Sewickley	M		3	1,970	2,450	2,560	12.2	3.9	81564 to 81566
Swaney	do.	M		2	2,080	2,280	2,360	10.6	2.9	84772 and 84773
Fayette City										
Fayette	Pittsburgh	T	Run-of-mine		2,730	2,780	2,920	7.6	1.0	A95742
Do.	do.	T	4-inch lump		2,780	2,850	2,930+	7.2	.9	B29544
Do.	do.	T	4- by 1-1/4-inch		2,610	2,730	2,880	8.6	1.2	B29545
Do.	do.	T	1-1/4-inch by 0		2,470	2,590	2,800	9.0	1.3	B29546
Do.	do.	T	Run-of-mine		2,630	2,700	2,850	8.6	1.2	B64343
Gates										
Gates No. 1	Pittsburgh	M		3	2,540	2,600	2,700	6.5	.9	84194 to 84196
Hartley	Waynesburg	M		3	2,560	2,620	2,670	13.6	1.3	84256 to 84258
Grays Landing										
Donald	Pittsburgh	T	Run-of-mine		2,350	2,440	2,680	9.2	1.9	B25875
High House										
Crawford No. 1	do.	T	do.		2,790	2,890	2,910+	7.3	.5	B29411
Hopwood										
Meadowbrook	Sewickley	M		3	2,110	2,260	2,360	11.1	3.0	84885 to 84887
Indian Head										
Indian Creek No. 1	Lower Kittanning	T	Run-of-mine		1,980	2,200	2,510	9.5	2.8	A55051
Do.	do.	T	2-inch lump		2,060	2,320	2,580	9.4	2.9	B27683
Do.	do.	T	2-inch by 0		2,060	2,350	2,610	9.3	3.0	B27684
Indian Creek No. 2	do.	M		3	1,970	2,250	2,390	7.8	2.4	81467 to 81469
Indian Creek No. 3	do.	T	Run-of-mine		2,260	2,510	2,680	10.7	2.1	A55121
Indian Head	do.	T	do.		1,980	2,270	2,470	11.0	3.2	B14340
Miller Bank	Lower Freeport	M		1	2,080	2,270	2,600	11.2	3.9	A95569

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Sparks No. 1	Lower Kittanning	T	Run-of-mine		2,160	2,490	2,560	11.5	2.5	A1191
Do.	do.	M		3	2,270	2,460	2,560	8.3	1.8	A1192 to A1194
Keisterville										
Lincoln	Pittsburgh	T	Run-of-mine		2,730	2,850	2,970	8.0	1.1	A95922
La Belle										
Melrose	do.	T	5-inch lump		2,480	2,520	2,590	11.3	2.4	A83956
Do.	do.	T	5- by 2-inch		2,460	2,550	2,710	9.4	1.9	A83957
Do.	do.	T	2- by 1-inch		2,450	2,560	2,680	10.4	1.8	A83958
Do.	do.	T	2-inch by 0		2,190	2,300	2,570	11.5	2.0	A83959
Do.	do.	T	Run-of-mine		2,170	2,440	2,700	10.3	2.1	A83960
Layton										
Jacobs Creek	Upper Freeport	M		2	1,790	2,130	2,180	6.9	2.3	85325 and 85326
Lemont Furnace										
Goddis	Sewickley	M		3	2,320	2,460	2,550	12.1	3.4	81497 to 81499
McClellandtown										
Edenborn	Pittsburgh	M		5	2,430	2,660	2,780	7.2	1.2	A68464 to A68468
Puritan No. 6	do.	T	Run-of-mine		2,730	2,800	2,920	7.0	1.0	A95744
Marklesburg										
Conaway Country Bank	-	M		1	2,070	2,220	2,410	15.7	4.1	B44875
Martin										
Martin	Pittsburgh	T	2-inch lump		2,430	2,440	2,650	8.4	2.5	B27436
Do.	do.	T	2- by 3/4-inch		2,110	2,420	2,680	10.2	2.6	B27437
Do.	do.	T	3/4-inch by 0		2,060	2,180	2,440	9.3	2.8	B27438
Sunshine Fuel No. 3	Sewickley	M		1	2,110	2,280	2,520	14.6	4.1	E78077
Masontown										
Donald No. 2	Pittsburgh	T	Run-of-mine		2,200	2,390	2,640	8.0	2.1	A95924
Griffith No. 1	do.	M		2	2,740	2,940	3,020	8.2	1.1	81558 and 81559
Patrick No. 1	Sewickley	M		3	2,090	2,230	2,320	10.9	3.7	84415 to 84417
Patrick No. 2	do.	M		2	2,140	2,300	2,480	12.2	4.1	81555 and 81556
Provins	do.	T	Run-of-mine		2,100	2,470	2,600	11.7	3.2	B27194
Ross	do.	M		3	2,080	2,220	2,310	14.1	2.3	84150 to 84152
Melcroft										
Indian Creek No. 4	Lower Kittanning	T	3/4-inch by 0		2,210	2,460	2,610	7.8	2.0	B5684
Do.	do.	T	Run-of-mine		2,230	2,470	2,610	9.6	2.2	B5685
Melcroft	do.	T	do.		2,560	2,650	2,750	8.9	1.6	E84159
Melcroft No. 1	do.	M		5	1,980	2,370	2,450	9.1	2.3	A1122 to A1126
Do.	do.	T	Run-of-mine		2,160	2,400	2,480	10.8	2.4	A1121
Merrettstown										
Allison No. 1	Pittsburgh	T	do.		2,600	2,680	2,780	8.8	1.3	A95923
Mill Run										
Harbaugh	Mahoning	M		1	2,150	2,260	2,550	17.7	4.8	A95570
May Bank	Upper Freeport	M		1	2,470	2,540	2,700	13.2	2.3	A95571
Penny	Lower Kittanning	M		2	1,920	2,210	2,260	16.7	3.4	81345 and 81346
Rowan Bank	Upper Kittanning	M		1	2,130	2,260	2,610	30.5	4.8	A95566
Mount Braddock										
Ainsley	Pittsburgh	M		2	2,710	2,880	2,960	8.3	1.0	81614 and 81615
Moyer										
Martin Bank	Brookville	M		1	2,910	2,960	-	15.9	1.2	A95567
Soisson	Lower Kittanning	M		1	2,080	2,300	2,690	9.9	3.8	A95568
Newcomer										
Crawford No. 2	Pittsburgh	T	Run-of-mine		2,730	2,810	2,910+	8.4	.9	B25755
Crawford No. 4	do.	T	do.		2,730	2,800	2,870	11.7	1.0	B25757
New Geneva										
Atlantic No. 1	do.	M		4	2,020	2,170	2,260	6.9	2.4	84653 to 84656
Eddie	do.	T	Run-of-mine		2,690	2,840	2,910+	8.2	1.1	B55759
Hoffman	Sewickley	M		3	1,990	2,250	2,430	10.2	2.7	84625 to 84627
Stevenson	do.	M		3	2,170	2,240	2,350	10.1	3.4	84318 to 84320
New Salem										
Shamrock No. 1	Pittsburgh	T	Run-of-mine		2,520	2,650	2,790	9.4	1.0	B27295
Normalville										
Silcox	Lower Kittanning	T	do.		2,170	2,390	2,570	14.6	3.9	A81871

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Fayette County (Con.)										
Normalville										
Sparks No. 2	Lower Freeport	T	Run-of-mine		2,220	2,390	2,510	12.0	2.6	A22153
Sparks No. 3	Lower Kittanning	T	do.		2,470	2,570	2,620	9.7	1.8	A48468
Ohiopyle										
Bailey	Upper Kittanning	M		2	2,320	2,510	2,620	15.7	2.4	81487 and 81488
Country Bank	Brookville	M		1	2,130	2,380	2,620	15.9	4.1	A95441
Potter	Lower Freeport	M		1	2,140	2,440	2,650	9.7	3.2	A95442
Jim Run	Lower Kittanning	M		2	1,800	2,170	2,390	12.3	4.3	81484 and 81485
Stull	Brookville	M		2	2,010	2,290	2,420	11.1	1.0	81357 and 81358
J. F. Stull Country Band	Lower Freeport	M		1	2,040	2,240	2,340	6.6	3.0	81356
Torrence	Upper Kittanning	M		2	2,160	2,440	2,560	6.8	2.0	81360 and 81361
Whipkey	Lower Kittanning	M		1	2,140	2,440	2,650	8.4	2.8	A95440
Do.	Upper Kittanning	T	Run-of-mine		2,100	2,520	2,590	9.8	2.8	D58044
Oliphant Furnace										
Jeffrey No. 1	Sewickley	M		3	2,140	2,290	2,370	10.4	2.9	84843 to 84845
Oliphant	Pittsburgh	M		4	2,590	2,690	2,770	6.3	1.0	84880 to 84883
Oliver										
Oliver No. 2	do.	T	Run-of-mine		2,820	2,870	2,970	7.3	.9	A95590
Oliver No. 4	do.	T	do.		2,790	2,880	2,910+	8.2	1.0	B29923
Do.	do.	T	6-inch lump		2,840	2,870	2,900+	7.0	.9	B29983
Do.	do.	T	6- by 2-inch		2,850	2,890	2,900+	8.7	.9	B29984
Do.	do.	T	2-inch by 0		2,700	2,760	2,850	7.6	1.1	B29985
Point Marion										
Eagle	do.	M		4	2,200	2,360	2,470	7.9	2.4	84588 to 84591
Do.	do.	T	Run-of-mine		2,140	2,360	2,590	10.7	3.6	A95743
Do.	do.	T	2- by 1-1/4-inch		1,940	2,130	2,250	12.2	3.3	D90909
Do.	do.	T	1-1/4- by 3/4-inch		1,930	2,100	2,360	11.2	2.9	D90910
Do.	do.	T	3/4-inch by 0		2,080	2,130	2,360	10.3	3.1	D90911
Frederick No. 1	do.	M		3	2,220	2,380	2,450	7.4	2.2	84593 to 84595
Do.	do.	T	Run-of-mine		2,090	2,210	2,440	8.2	2.2	F52795
Marion	do.	T	Run-of-mine (W)		1,990	2,200	2,490	9.4	2.6	E37811
Old Home No. 2	do.	M		3	2,020	2,270	2,470	9.6	3.0	C738 to C740
Winstead	do.	M		3	2,120	2,270	2,340	6.8	2.0	84529 to 84531
Rodgers Mills										
Grimes	Lower Freeport	M		2	1,930	2,120	2,270	10.6	3.0	81478 and 81479
Rodgers No. 2	Upper Kittanning	M		2	2,180	2,320	2,470	9.0	2.3	81475 and 81476
Rose	Lower Kittanning	M		2	2,240	2,450	2,600	22.3	5.7	81481 and 81482
Sagamore										
Big Chief	do.	T	Run-of-mine		2,210	2,470	2,600	9.7	2.4	A97259
Sand Rock										
Corrado No. 2	Upper Kittanning	M		3	2,000	2,170	2,270	8.9	2.6	85331 to 85333
Scottdale (Westmoreland Co.)										
Wilson No. 2	Lower Kittanning	T	Run-of-mine		2,120	2,310	2,490	11.1	2.7	C99200
Shoaf										
Hope No. 2	Sewickley	T	do.		2,080	2,210	2,500	12.9	3.9	C87076
Smithfield										
Baxter Ridge No. 2	Pittsburgh	M		3	2,350	2,470	2,530	9.3	2.2	84643 to 84645

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Crawford No. 3	do.	T	Run-of-mine		2,550	2,690	2,890	8.2	1.3	B54674
Daugherty No. 2	do.	T	do.		2,680	2,780	2,910+	9.1	.9	C86539
Grim	do.	T	do.		2,560	2,700	2,780	8.3	1.3	B55753
Johnson No. 119	do.	M		3	2,060	2,170	2,510	10.0	3.8	C3703 to C3705
Do.	do.	T	Run-of-mine		2,520	2,620	2,740	11.0	1.8	C3663
Sabatini	do.	T	do.		2,680	2,750	2,910+	9.3	1.4	C3765
Sapper	Sewickley	M		4	2,180	2,330	2,380	8.7	3.5	84410 to 84413
Somerfield										
John Burnworth Farm	-	M		1	2,720	2,840	2,860+	11.8	1.7	B45392
Endsley	-	M		1	2,230	2,370	2,540	16.4	2.2	B44876
Rodahaver	-	M		1	2,620	2,740	2,900	12.2	1.3	B45394
R. B. Spurgeon Prospect	-	M		1	2,040	2,440	2,590	16.8	4.2	B44874
Thomasdale	Upper Freeport	M		2	2,110	2,250	2,350	17.1	3.5	81353 and 81354
Stewarton										
Stewarton	Clarion	M		2	1,950	2,290	2,350	13.8	4.9	81342 and 81343
Uledi										
Beal	Pittsburgh	M		2	2,740	2,910	2,990	6.5	.9	84893 and 84894
Playford	Sewickley	M		2	2,200	2,360	2,460	12.4	3.3	81552 and 81553
Uniontown										
Amend No. 11	do.	T	Run-of-mine		2,090	2,210	2,490	12.6	3.9	C3662
Evans No. 3	do.	M		3	1,940	2,240	2,290	10.7	3.1	85318 to 85320
Oliver No. 3	Pittsburgh	T	Run-of-mine		2,640	2,750	2,920	9.3	1.0	A95745
South Union No. 1	do.	T	do.		2,810	2,910+	-	8.9	.8	B29049
Do.	do.	T	2- by 1-inch		-	2,910+	-	9.6	.7	B29051
Do.	do.	T	2- by 1-1/4-inch		2,800	2,890	2,910+	9.5	.7	B33973
South Union No. 2	do.	T	2-inch lump		2,830	2,910+	-	9.3	.9	B33878
Do.	do.	T	2- by 5/8-inch		2,770	2,860	2,910+	9.1	1.0	B33879
Do.	do.	T	2- by 1-1/4-inch		2,830	2,910+	-	9.8	.7	B33972
Springer	Upper Freeport	M		2	1,930	2,170	2,230	14.4	3.9	84949 and 84950
Waltersburg										
Valley	Gallitzin	M		2	1,700	1,890	1,940	8.9	3.5	84988 and 84989
Walters	Hagers	M		2	1,890	2,020	2,290	9.4	4.3	81583 and 81584
Waltersburg	Pittsburgh	M		2	2,690	2,740	2,830	8.6	1.1	81561 and 81562
Washington Mines										
Washington No. 1	do.	T	Run-of-mine		2,220	2,520	2,720	7.8	1.1	A30061
Washington No. 2	-	T	do.		2,130	2,410	2,740	8.0	1.3	A30062
Wynn										
Rankin Farm	Sewickley	T	do.		2,080	2,160	2,420	16.0	2.4	C89406
Fulton County										
Robertsdale										
Rock Hill No. 9	Fulton	T	do.		2,740	2,820	2,880	8.6	1.2	A22507
Greene County										
Besco (Washington County)										
William Pitt	Pittsburgh	M		4	2,240	2,350	2,440	6.8	1.1	83976 to 83979
Bobtown										
Rosedale No. 7	do.	T	Run-of-mine		2,210	2,490	2,570	13.4	2.8	D51454
Do.	Sewickley	T	do.		2,450	2,540	2,670	12.2	2.0	E18815
Clarksville										
Clyde No. 3	Pittsburgh	T	6-inch lump		2,470	2,610	2,820	5.4	.9	B30104
Do.	do.	T	6- by 2-1/2-inch		2,560	2,680	2,860	5.8	.9	B30105
Do.	do.	T	2-1/2-inch by 0		2,250	2,440	2,800	9.6	1.3	B30106
Edward	do.	M		3	2,270	2,350	2,430	7.6	1.3	83846 to 83848
Emerald	do.	T	Run-of-mine		2,110	2,220	2,540	7.4	1.7	B29956
Do.	do.	T	2-inch lump		2,100	2,190	2,530	8.1	2.1	B29957
Do.	do.	T	1-1/4-inch by 0		2,110	2,230	2,550	6.2	1.6	B29958
Crucible										
Crucible	do.	M		6	2,240	2,400	2,500	8.1	1.6	84169 to 84174

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Greene County (Con.)										
Dilliner										
Moffitt (Walnut Hill)	Pittsburgh	T	Run-of-mine		2,310	2,470	2,680	11.0	2.5	B83038
Do.	do.	T	1-1/8-inch lump		2,080	2,270	2,470	12.9	3.0	B83039
Do.	do.	T	1-1/8- by 5/8-inch		2,050	2,180	2,430	12.4	3.2	B83040
Do.	do.	T	5/8-inch by 0		2,020	2,140	2,430	11.0	3.2	B83041
Grays Landing (Fayette County)										
Alicia No. 2	do.	M		5	2,100	2,260	2,320	8.5	2.4	84203 to 84207
New Alicia No. 2	do.	M		2	2,140	2,260	2,310	11.1	3.0	84246 and 84247
Mather										
Mather	do.	T	Run-of-mine		2,250	2,380	2,640	8.9	1.3	B27297
Mather No. 1	do.	M		6	2,260	2,390	2,480	5.8	1.0	83771 to 83776
Nemacolin										
Nemacolin	do.	M		6	2,290	2,370	2,430	7.1	1.2	84162 to 84167
Newtown										
Rosedale Strip	do.	T	Run-of-mine		2,520	2,620	2,840	12.4	1.5	B83278
Point Marion (Fayette County)										
Jeanette	do.	M		3	2,020	2,260	2,320	7.8	2.9	84475 to 84477
Moffit	do.	T	Run-of-mine		2,090	2,280	2,540	12.9	3.1	C83829
Mon Valley	do.	T	5- by 2-inch		2,000	2,130	2,470	8.8	3.6	D51328
Do.	do.	T	2-inch by 0		2,030	2,130	2,490	9.0	3.3	D51329
Rosedale No. 4	Sewickley	T	Run-of-mine		2,470	2,570	2,780	13.3	1.5	C69192
Poland										
Cathy No. 4	Pittsburgh	T	do.		1,940	2,310	2,470	12.3	3.3	D72672
Dunkard No. 1	Sewickley	M		2	2,070	2,140	2,240	8.6	1.7	84521 and 84522
Dunkard No. 2	Pittsburgh	M		4	2,170	2,250	2,320	7.6	3.1	84524 to 84527
Luxner No. 1	do.	T	2-inch by 0		2,150	2,230	2,500	11.6	3.1	D14448
Mabel No. 3	Sewickley	T	Run-of-mine		2,100	2,460	2,620	11.8	2.0	E65091
Mon-Ark No. 5	Pittsburgh	T	5- by 2-inch		2,050	2,130	2,450	10.5	2.3	E36895
Do.	do.	T	2- by 1-1/4-inch		2,040	2,170	2,390	11.5	2.4	E36896
Do.	do.	T	1-1/4- by 1/2-inch		2,040	2,140	2,350	12.3	2.7	E36897
Do.	do.	T	1/2-inch by 0		1,940	2,070	2,300	11.4	2.8	E36898
Poland No. 3	do.	M		5	2,060	2,140	2,180	7.5	2.4	84428 to 84432
Do.	do.	T	Run-of-mine		2,030	2,120	2,370	11.6	3.2	C29983
Poland No. 4	Sewickley	T	do.		2,540	2,600	2,780	19.2	1.9	C83832
Rosedale No. 2	do.	M		3	2,130	2,350	2,410	8.6	2.3	84479 to 84481
Rices Landing										
Dilworth	Pittsburgh	M		5	2,090	2,200	2,270	9.4	2.0	83892 to 83896
Hogg Country Bank	Waynesburg	M		1	2,020	2,240	2,340	17.2	3.6	84052
Waynesburg										
Guthrie	do.	M		2	2,400	2,510	2,570	17.9	2.6	83811 and 83812
Mordoch	do.	M		2	2,250	2,420	2,480	17.2	3.6	83814 and 83815
Pratt Hill	do.	M		1	2,530	2,680	2,800	13.6	1.9	83782
Huntingdon County										
Robertsdale										
Rockhill No. 5	Fulton	T	Run-of-mine		-	2,800	-	9.9	1.1	A22323
Do.	do.	T	do.		-	2,710	-	9.0	1.2	A22539

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Indiana County										
Alverda										
Industrial Colliery No. 9	Lower Freeport	M		3	2,730	2,910+(2) 2,570 (1)	- 2,760 (1)	7.6	1.0	B39059 to B39061
Pine No. 1	do.	T	2-1/2-inch lump		2,030	2,130	2,450	7.1	1.9	D84709
Do.	do.	T	2-1/2- by 5/8-inch (W)		2,620	2,700	2,860	7.9	1.1	D84710
Do.	do.	T	5/8- by 3/8-inch (W)		2,700	2,780	2,910+	8.3	1.1	D84711
Do.	do.	T	3/8-inch by 0		2,630	2,730	2,910+	7.9	.9	D84712
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,630	2,730	2,910+	8.3	1.2	D84713
Arcadia										
Arcadia No. 1	Upper Freeport	T	Run-of-mine		2,620	2,730	2,850	10.4	1.3	B78876
Avonmore (Westmoreland County)										
Peretto No. 1	Pittsburgh	T	do.		2,420	2,540	2,650	13.2	2.3	D25125
Black Lick										
Clawson	do.	M		1	2,110	2,180	2,230	10.5	2.2	85501
Keller	Upper Freeport	T	Run-of-mine		2,520	2,570	2,750	13.9	2.0	D1260
Lyda No. 3	do.	T	do.		2,520	2,590	2,770	13.9	1.7	E44137
Bolivar (Westmoreland County)										
Garfield No. 2	Lower Kittanning	T	3/4-inch lump		2,000	2,300	2,590	10.6	4.0	A97637
Do.	do.	T	3/4-inch by 0		2,100	2,390	2,640	8.3	2.7	A97638
Boltz										
Diamond Smokeless	do.	T	Run-of-mine		2,090	2,340	2,430	10.1	2.7	A88
Do.	do.	T	5- by 1-inch (W)		2,130	2,360	2,570	9.2	3.2	D56516
Do.	do.	T	1- by 1/4-inch (W)		2,230	2,420	2,570	8.1	2.3	D56517
Do.	do.	T	1/4-inch by 0		1,970	2,310	2,570	8.9	2.9	D56518
Clarksburg										
Brown	Pittsburgh	M		1	2,510	2,600	2,690	10.5	1.8	85582
Clymer										
Clymer No. 1	Lower Freeport	M		4	2,150	2,240	2,340	9.8	3.1	A24408 to A24411
Victor No. 24	do.	T	Run-of-mine		2,140	2,320	2,520	7.5	2.0	A84231
Victor No. 29	Lower Kittanning	T	do.		2,470	2,580	2,720	7.9	1.9	A71439
Do.	do.	T	3/4-inch lump		2,330	2,510	2,680	8.3	2.2	B6195
Victor No. 45	do.	T	Run-of-mine		1,990	2,280	2,570	9.3	3.7	A84145
Coal Run										
Kent No. 3	Upper Freeport	T	do.		2,520	2,680	2,730	12.7	1.8	D61438
Do.	do.	T	6- by 3/4-inch		2,270	2,580	2,680	10.9	2.0	F7057
Do.	do.	T	3/4-inch by 0		2,060	2,450	2,590	9.0	2.2	F7058
Kent No. 4	Lower Freeport	T	Run-of-mine		2,680	2,810	2,890	8.7	1.3	D61439
Commodore										
Fisher	do.	T	do.		1,940	2,210	2,520	10.1	3.4	E64428
Wayne No. 2	do.	T	do.		1,920	2,150	2,450	10.3	3.9	E42868
Do.	do.	T	1-1/4-inch by 0		2,060	2,210	2,470	9.8	3.5	E42869
Coral										
Coral	Upper Freeport	M		4	2,270	2,340	2,390	7.4	1.0	85506 to 85509
Potter No. 1	do.	T	3/4-inch by 0		2,460	2,570	2,730	9.0	1.1	A70151
Do.	do.	T	1-1/4- by 3/8-inch		2,700	2,810	2,930	10.3	.7	A70235
Dayton										
Henry Country Bank	Lower Kittanning	M		1	2,140	2,500	2,610	12.0	2.3	B44139
Mauk Country Bank	do.	M		1	1,990	2,340	2,580	10.9	3.7	B44141
Diamondville										
Woodland No. 5	do.	T	Run-of-mine		2,230	2,500	2,600	8.5	2.5	A64903
Diaz										
Virginia No. 15	do.	T	1/2-inch lump		1,940	2,220	2,520	11.2	4.2	B61563
Do.	do.	T	1/2-inch by 0		1,970	2,360	2,580	9.7	3.3	B61564
Dilltown										
Dilltown Smokeless No. 1	do.	M		3	1,850	1,930	2,010	8.5	3.4	85061 to 85063
Thermal No. 15	do.	T	Run-of-mine		1,920	2,280	2,400	11.2	3.9	A33443
Do.	do.	T	5- by 1-1/4-inch		2,020	2,120	2,360	10.1	4.4	A51712
Do.	do.	T	1-1/4-inch by 0		2,010	2,310	2,400	9.7	3.3	A33411
Do.	do.	T	2-inch lump		1,990	2,150	2,500	9.4	4.7	A69902

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Indiana County (Con.)										
Dilltown										
Thermal No. 15	Lower Kittanning	T	2-inch by 0		2,020	2,390	2,620	10.3	3.3	A69964
Thompson	do.	T	Run-of-mine		1,970	2,290	2,520	10.7	3.1	D53128
Dixonville										
H & H No. 1	Lower Freeport	T	do.		1,920	2,120	2,420	10.5	3.1	D90000
Elderton										
Shaley Timber	Upper Freeport	T	4- by 1-1/4-inch		2,160	2,440	2,610	12.8	2.2	E35722
Do.	do.	T	1-1/4-inch by 0		2,080	2,350	2,470	13.1	2.4	E35723
Ernest										
Ernest	do.	T	6- by 2-inch		2,510	2,620	2,720	8.6	1.4	A60935
Do.	do.	T	2- by 1/4-inch		2,680	2,730	2,800	8.2	1.0	A61051
Do.	do.	T	1/4-inch by 0		2,160	2,480	2,580	8.8	1.6	A60936
Glen Campbell										
Banks No. 2	Lower Kittanning	T	Run-of-mine		2,750	2,810	2,870	17.7	1.8	D18660
Do.	do.	T	do.		2,480	2,590	2,730	8.7	1.5	E26379
Robertsville	do.	T	do.		2,910+	-	-	10.0	.7	D67741
Summit No. 16	do.	T	do.		2,910+	-	-	10.0	.8	D44003
Urel Ridge	Upper Kittanning	T	do.		2,720	2,780	2,860	10.6	1.5	A61469
Heilwood										
Valley No. 1	Lower Freeport	T	do.		2,200	2,510	2,550	9.5	2.0	E23561
Valley No. 4	do.	T	do.		2,480	2,580	2,690	11.2	2.2	E48009
Heshbon										
Heshbon	do.	T	do.		2,630	2,720	2,800	9.8	1.0	B54716
Do.	do.	T	2-inch lump		2,630	2,730	2,860	9.0	1.0	B54715
Do.	do.	T	2-inch by 0		2,670	2,750	2,910+	9.3	1.0	B54714
Heshbon No. 2	do.	T	Run-of-mine		2,860	2,910+	-	8.9	.7	E15076
Virginia No. 14	Lower Kittanning	T	do.		1,980	2,350	2,510	8.5	2.7	A51753
Do.	do.	T	1-1/4-inch by 0		2,060	2,430	2,540	8.9	2.9	A71437
Homer City										
Appalacha	Upper Freeport	T	Run-of-mine		2,050	2,360	2,600	11.9	2.9	B81353
Do.	do.	T	2- by 3/4-inch		2,000	2,180	2,530	11.5	2.6	D86159
Do.	do.	T	3/4-inch by 0		2,000	2,200	2,490	10.2	2.4	D86160
Graceton	Lower Kittanning	T	Run-of-mine		2,010	2,300	2,510	10.1	3.1	F6469
Do.	Upper Freeport	T	do.		2,530	2,620	2,820	11.2	1.8	F6468
Krolick No. 1	Lower Kittanning	T	do.		2,020	2,090	2,320	10.8	3.4	E35579
Raglani	do.	T	do.		2,040	2,240	2,550	10.6	3.4	D65975
Raglani No. 1	do.	T	do.		1,950	2,120	2,440	11.1	4.6	E45452
Raglani No. 2	Upper Freeport	T	do.		1,920	2,170	2,490	11.1	3.4	D86839
Thermal No. 8	do.	T	2-inch lump		2,460	2,580	2,740	7.7	1.4	B27801
Do.	do.	T	2-inch by 0		2,600	2,710	2,840	7.7	1.1	B27802
Indiana										
Buggy	do.	T	Run-of-mine		2,360	2,570	2,680	14.6	2.2	D53402
Frostburg No. 4	do.	T	do.		2,130	2,430	2,450	10.4	2.0	A2352
Frostburg No. 5	Lower Kittanning	T	do.		2,090	2,320	2,450	8.6	2.7	A2361
Fulton Run	Upper Freeport	T	do.		2,500	2,620	-	9.6	.8	98334
Do.	do.	M		4	2,580	2,820+(2) 2,520 (2)	- 2,640 (2)	6.5	.8	98137 to 98140

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Kimmel	do.	T	Run-of-mine		2,520	2,590	2,650	13.7	2.0	D53129
Two Lick	do.	T	1-1/4-inch lump		2,010	2,250	2,580	10.5	3.0	F6630
Do.	do.	T	1-1/4-inch by 0		2,150	2,310	2,610	9.1	2.2	F6631
Iselin										
Corky	Pittsburgh	T	Run-of-mine		2,510	2,600	2,750	12.7	2.0	C18246
Iselin	do.	T	do.		2,520	2,610	2,700	13.8	1.9	A61210
Josephine										
Bells Mill	Lower Kittanning	M		3	1,960	2,150	2,210	8.6	2.9	85502 to 85504
Do.	do.	T	Run-of-mine		2,000	2,230	2,460	10.1	2.9	A53554
Kent										
Aultman No. 5	Upper Freeport	M		3	2,230	2,320	2,400	9.3	1.7	85763 to 85765
Dennis No. 1	do.	T	Run-of-mine		2,070	2,190	2,490	13.0	2.2	E43211
Lockvale										
Mona	do.	T	do.		2,080	2,520	2,630	12.0	1.7	D87723
Smith	do.	T	do.		2,410	2,590	2,700	12.0	1.6	D18661
Lucerne										
Lucerne	do.	T	5- by 2-inch		2,100	2,180	2,420	11.3	2.7	D19997
Do.	do.	T	2- by 1-inch		2,150	2,450	2,590	10.8	2.1	D19998
Do.	do.	T	1- by 3/8-inch		2,500	2,570	2,650	9.1	1.5	D19999
Do.	do.	T	3/8-inch by 0		2,420	2,550	2,620	7.0	1.4	D20000
Do.	do.	T	1-inch by 0		2,470	2,550	2,620	7.5	1.4	D20001
McIntyre										
McIntyre	Lower Freeport	T	2-inch by 0		2,550	2,640	2,740	7.0	1.0	A60954
Do.	do.	T	Run-of-mine		2,620	2,740	2,860+	7.9	.9	A60955
McIntyre No. 2	Upper Freeport	T	do.		2,730	2,770+	-	7.4	.9	A60956
Do.	do.	T	2-inch by 0		2,700	2,780	2,870	7.0	.9	A60957
Marion Center										
Grant No. 1	Lower Freeport	T	Run-of-mine		2,030	2,250	2,440	10.6	2.5	E39325
Mentcle										
Industrial Collieries No. 11	do.	M		3	2,200	2,420	2,640	10.0	1.9	B39063 to B39065
Mooween										
Watson No. 1	Upper Freeport	M		3	2,210	2,340	2,440	7.4	.8	85652 to 85654
Watson No. 2	do.	M		1	2,340	2,450	2,510	6.6	1.1	85655
Robinson										
Garfield	Lower Kittanning	T	Run-of-mine		1,940	2,060	2,530	10.4	3.4	D86395
Garfield No. 3	do.	T	do.		2,230	2,530	2,840	11.9	2.9	B80291
Rochester Mills										
Friel No. 4	Upper Kittanning	T	do.		2,670	2,850	2,910+	10.9	1.0	E35578
Monnie No. 8	Lower Kittanning	T	do.		2,770	2,850	2,910+	9.9	1.1	E44757
Rossiter										
Rossiter	Upper Freeport	T	do.		2,260	2,620	2,700	13.1	2.1	D65978
Rossiter No. 1	do.	M		2	2,020	2,230	2,460	11.9	3.5	A72830 and A72831
Rossiter No. 3	do.	M		1	2,060	2,380	2,550	10.9	2.4	A72829
Saltsburg										
June	do.	T	Run-of-mine		1,940	2,200	2,500	11.5	3.2	D64239
Watson	do.	T	2- by 1-1/4-inch		2,700	2,840	2,910+	11.5	1.0	F6348
Do.	do.	T	1-1/4- by 3/4-inch		2,670	2,770	2,910	10.2	.9	F6349
Do.	do.	T	3/4-inch by 0		2,680	2,760	2,910+	9.5	.9	F6350
Seward (Westmoreland County)										
Diamond Smokeless	Lower Kittanning	T	Run-of-mine		2,130	2,420	2,620	8.5	2.6	A81274
Shanktown										
Lancaster No. 18	do.	M		1	1,950	2,200	2,290	10.6	3.9	98928
Smicksburg										
Daugherty Farm	Lower Freeport	M		1	2,140	2,430	2,610	13.5	3.4	B44140
Lewis Farm	do.	M		1	2,350	2,590	2,710	9.5	1.9	B44138
Strangford										
Strangford	Upper Freeport	M		3	2,220	2,380	-	10.5	2.3	85657 to 85659
Tunnelton										
Tunnelton	do.	M		3	2,050	2,220	2,300	9.4	2.3	85601 to 85603
Urey										
Lamkie No. 1	do.	T	Run-of-mine		2,520	2,600	2,680	9.5	1.3	D18422

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Indiana County (Con.)										
Urey										
Lamkie No. 1	Lower Freeport	T	Run-of-mine		2,070	2,170	2,490	13.2	1.7	E15886
Waterman										
Waterman	Lower Kittanning	T	do.		1,920	2,150	2,380	10.6	3.8	A61227
Do.	do.	T	7/16-inch by 0		1,950	2,270	2,420	9.2	3.1	A61228
West Lebanon										
Corbett	Pittsburgh	T	Run-of-mine		2,690	2,780	2,910+	11.6	1.1	E56799
Jefferson County										
Anita										
Florence No. 1	Lower Freeport	M		3	2,750 (2)	2,750+(1) 2,860 (2)	-	4.9	.6	98063 to 98065
Florence No. 2	do.	M		1	2,740	2,870	-	4.2	.9	98066
Grube	do.	T	Run-of-mine		1,960	2,110	2,470	7.0	1.8	E11285
Baxter										
Clover	Clarion	M		3	2,020	2,100	2,250	8.8	4.9	99362 to 99364
Do.	do.	T	Run-of-mine		2,010	2,090	2,130	14.2	7.2	99656
Big Run										
Hillman	Upper Freeport	T	do.		2,660	2,780	2,910+	10.6	.9	D85747
Kann No. 3	do.	T	do.		2,170	2,520	2,610	10.5	1.7	E14079
Kann No. 4	Lower Freeport	T	do.		2,620	2,760	2,860	7.2	.9	E40491
McClure	do.	M		3	2,160	2,350	2,420	7.2	1.7	98924 to 98926
Do.	Upper Freeport	T	Run-of-mine		1,960	2,240	2,470	10.8	2.9	B30979
Bowersville										
Bowersville	do.	T	do.		2,010	2,200	2,280	11.6	3.1	A27706
Brockway										
Granville	Lower Freeport	M		3	2,040	2,200	2,390	8.8	2.6	A34489 to A34491
Groves No. 1	do.	M		3	2,110	2,230	2,270	7.5	2.9	82574 to 82576
Groves No. 2	Upper Freeport	M		2	2,200	2,390	2,490	8.4	1.6	A34493 and A34494
Mill Creek No. 1	Lower Kittanning	M		3	2,000	2,170	2,380	11.7	3.2	A34485 to A34487
Rattlesnake	do.	T	Run-of-mine		2,670	2,730	2,860	13.5	1.4	C74612
Brookville										
Cherokee	Middle Kittanning	T	do.		2,790	2,850	-	13.6	1.3	99812
Do.	do.	M		2	2,790	2,910	-	11.0	1.1	99813 and 99814
Mineweaser	Brookville	M		2	2,040	2,370	2,480	9.6	3.0	82788 and 82789
Moore No. 19	Lower Freeport	T	Run-of-mine		2,050	2,430	2,540	12.3	2.1	D68091
Yates	Brookville	T	do.		2,250	2,390	2,450	12.8	2.9	99357
Do.	do.	M		3	2,040	2,270	2,390	9.9	3.2	99358 to 99360
Coal Glen										
Jefferson No. 8	Lower Freeport	M		3	2,060	2,260	2,380	8.7	2.9	82590 to 82592
Conifer										
Conifer	Lower Kittanning	T	2- by 1-1/4-inch		2,910+	-	-	10.4	.7	D53130
Do.	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	10.3	.9	D53131
Do.	do.	T	3/4- by 3/8-inch		2,910+	-	-	11.0	.8	D53132
Do.	do.	T	3/8-inch by 0		2,890	2,910+	-	15.6	1.1	D53133
McGarey	do.	M		3	2,860	2,950+(1) 2,890 (2)	2,950+(1) 2,920 (1)	9.8	.9	A80679 to A80681

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Coolspring										
Moore No. 3	Lower Freeport	T	Run-of-mine		2,070	2,360	2,460	10.2	1.0	C63420
Corsica										
P & G	Lower Kittanning	T	do.		2,010	2,350	2,500	16.9	3.4	E56795
Roseville No. 1	do.	T	do.		2,500	2,600	2,730	11.5	1.6	D17767
De Lancey										
Adrian	Lower Freeport	T	2-inch lump		2,160	2,430	2,550	5.6	1.9	A64524
Do.	do.	T	2-inch by 0		2,170	2,370	2,440	6.7	2.0	A64531
Dora										
Dora	Lower Kittanning	M		3	2,510	2,640	2,680 (2)	4.6	.9	A22, A27, and A29
Do.	do.	T	Run-of-mine		2,620	2,720	2,850	6.8	1.0	B27237
Markle-Buller	do.	M		3	2,700	2,800	-	5.2	.9	A23, A24, and A28
Do.	do.	T	Run-of-mine		2,500	2,680	2,740	8.0	1.1	A26
Falls Creek										
Minns	Upper Freeport	T	do.		2,720	2,840	2,910+	7.3	.8	E65693
Frostburg										
Dennison	do.	M		3	2,040	2,270	2,430	7.3	2.6	81505 to 81507
Knox Dale										
Swan No. 1	Lower Freeport	M		2	2,180	2,350	2,480	7.9	3.2	82682 and 82683
Kramer										
Kramer	do.	M		5	2,510	2,680	2,910+(1) 2,790 (4)	6.7	1.1	B21219 to B21223
Do.	do.	T	2-inch lump		2,420	2,610	2,760	7.3	1.1	D47968
Do.	do.	T	2- by 3/4-inch		2,730	2,780	2,840	9.3	1.0	D47969
Do.	do.	T	3/4-inch by 0		2,570	2,700	2,800	8.5	1.0	D47970
Luthersburg (Clearfield Co.)										
Rockton No. 1	Middle Kittanning	T	Run-of-mine		2,100	2,420	2,680	13.0	2.5	D73702
Punxsutawney										
Moore No. 11	Upper Freeport	T	do.		2,590	2,710	2,780	12.1	1.2	C64362
Nancy No. 8	Lower Freeport	T	do.		2,620	2,700	2,780	6.9	.9	D73193
Pamco	Upper Freeport	T	do.		2,100	2,390	2,580	11.3	2.3	E74738
Ramsaytown										
Beaver	Lower Kittanning	T	do.		2,560	2,660	2,740	10.4	1.3	99806
Do.	do.	M		2	2,390	2,600	2,650	7.9	1.3	99807 and 99808
Renninger	Lower Freeport	T	Run-of-mine		2,450	2,510	2,590	6.5	1.1	99810
Reynoldsville										
Callahan	Middle Kittanning	T	do.		2,610	2,750	2,890	6.8	.6	E11002
Krack & Gearheart	Lower Freeport	T	do.		2,680	2,800	2,910+	7.7	.7	D52465
O'Harah	do.	T	do.		2,040	2,480	2,590	8.4	1.9	E56794
Ringgold										
Ringgold	Lower Kittanning	T	8- by 2-1/2-inch		2,010	2,170	2,450	7.6	2.2	B27020
Do.	do.	T	2-1/2- by 1-1/2-inch		2,050	2,400	2,550	8.0	2.0	B27021
Do.	do.	T	1-1/2- by 3/8-inch		2,500	2,580	2,680	11.8	1.9	B27022
Do.	do.	T	3/8-inch by 0		2,140	2,470	2,610	11.7	2.3	B27023
Summerville										
Pennsy No. 6	do.	M		3	2,120	2,330	2,410	12.3	3.1	82804 to 82806
Pennsy No. 10	Brookville	M		3	2,240	2,410	2,470	10.2	3.3	82808 to 82810
Reed	Lower Freeport	M		1	2,040	2,240	2,380	10.6	2.8	99648
Do.	Lower Kittanning	M		2	2,070	2,390	2,440	12.7	2.6	99649 and 99650
Do.	Brookville	M		2	2,150	2,470	2,520	11.7	3.2	99652 and 99653
Sutton (Clarion County)										
Kennedy No. 1	Lower Kittanning	T	Run-of-mine		2,700	2,800	2,910+	10.8	1.4	D74106
Sykesville										
Sykesville	Lower Freeport	T	1-1/4-inch by 0		2,710	2,740	2,820	8.7	1.3	A84232
Do.	do.	T	1-1/4- by 7/8-inch		2,780	2,850	2,930+	9.9	1.0	A84233
Do.	do.	T	Run-of-mine		2,630	2,700	2,810	8.0	1.3	A84234
Timblin										
Mill No. 2	Upper Freeport	M		3	2,010	2,290	2,450	8.6	2.6	81568 to 81570
Valier										
Light No. 1	Lower Freeport	M		3	1,920	2,270	2,490	10.7	3.4	81501 to 81503

1 M, mine sample; T, tipple sample. 2 W, washed.

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1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Jefferson County (Con.)										
Westville										
Bloom No. 1	Lower Freeport	T	Run-of-mine		2,210	2,410	2,460	12.0	2.6	D18344
Westville No. 4	Lower Kittanning	T	do.		2,080	2,360	2,450	12.5	2.7	C84940
Wishaw										
Trout Run No. 3	Lower Freeport	M		3	2,500	2,640	-	5.4	1.3	82653 to 82655
Worthville										
Maurer	Lower Kittanning	M		1	2,560	2,640	2,740	6.0	.9	A33
Lawrence County										
Edinburg										
Ambrosia	Upper Kittanning	T	4-inch lump		2,200	2,340	2,400	9.7	3.0	E44477
Do.	do.	T	4- by 1-1/4-inch		2,040	2,070	2,170	9.4	2.7	E44478
Do.	do.	T	1-1/4- by 1/2-inch		1,990	2,020	2,500	12.5	2.8	E44479
Do.	do.	T	1/2-inch by 0		1,920	2,020	2,480	18.2	4.1	E44480
Harlansburg										
Pilgrim	Brookville	T	4-inch lump		2,470	2,550	2,690	7.7	1.1	E27655
Do.	do.	T	4- by 2-inch		2,100	2,450	2,590	9.6	1.6	E27656
Do.	do.	T	2- by 1-1/4-inch		2,090	2,440	2,580	12.0	1.9	E27657
Do.	do.	T	1-1/4- by 3/4-inch		2,100	2,380	2,540	13.1	2.2	E27658
Do.	do.	T	3/4-inch by 0		1,930	2,220	2,510	15.5	2.2	E27659
McKean County										
Bradford										
Erich	Mercer	M		1	2,060	2,190	2,490	21.0	8.4	A98699
Mercer County										
Grove City										
Bessemer No. 2	Brookville	T	4-inch lump		2,120	2,380	2,490	6.7	2.0	B55142
Do.	do.	T	4- by 2-inch		2,080	2,210	2,500	7.2	1.8	B55143
Do.	do.	T	2- by 1-1/4-inch		2,030	2,140	2,470	6.9	1.9	B55144
Do.	do.	T	1-1/4- by 3/4-inch		2,030	2,220	2,450	6.8	1.9	B55145
Do.	do.	T	3/4-inch by 0		1,970	2,230	2,440	9.4	1.9	B55146
Highland	do.	T	4- by 2-1/2-inch		2,020	2,090	2,370	10.2	5.3	B55147
Do.	do.	T	2-1/2- by 1-1/8-inch		2,010	2,080	2,330	9.0	4.9	B55148
Do.	do.	T	1-1/8- by 7/8-inch		2,030	2,100	2,390	8.5	4.6	B55149
Do.	do.	T	7/8- by 5/8-inch		2,040	2,100	2,310	9.9	4.8	B55150
Do.	do.	T	5/8-inch by 0		1,980	2,070	2,270	12.2	5.0	B55151
Jackson Center										
McCurdy	do.	T	2-inch lump		1,940	2,200	2,410	7.7	2.7	B63986
Do.	do.	T	2- by 1-1/4-inch		1,950	2,080	2,410	8.0	4.0	B63987
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,060	2,270	8.2	4.6	B63988
Do.	do.	T	3/4-inch by 0		2,080	2,110	2,120	10.9	6.3	B63989
Rae	do.	T	5- by 2-inch		1,890	1,990	2,400	9.2	4.4	B40800
Do.	do.	T	2- by 1-inch		1,960	2,030	2,150	8.9	4.8	B40801
Do.	do.	T	3/4- by 1/4-inch		2,030	2,050	2,080	9.7	5.7	B40802
Do.	do.	T	1/4-inch by 0		2,010	2,050	2,080	11.7	6.3	B40803

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Do.	do.	T	Run-of-mine		2,000	2,030	2,150	9.5	5.2	B40804
Ra-Kol No. 1	do.	T	2-inch lump (W)		1,970	2,080	2,510	6.8	3.1	B55318
Do.	do.	T	5-inch lump		2,470	2,590	2,770	9.8	2.4	B55319
Do.	do.	T	5- by 2-inch (W)		1,970	2,190	2,450	6.9	2.8	B55320
Do.	do.	T	2- by 1-1/4-inch (W)		1,960	2,090	2,410	7.4	3.5	B55321
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,030	2,090	2,300	7.7	4.1	B55322
Do.	do.	T	1/4-inch by 0		1,990	2,050	2,250	18.4	5.9	B55323
Somerset County										
Acosta										
Belmont No. 2	Upper Freeport	T	1-1/2-inch by 0		2,000	2,320	2,520	10.1	2.4	A80946
Consolidation No. 120	Upper Kittanning	T	2-1/2-inch by 0		2,450	2,580	2,860	8.8	1.4	A69688
Do.	do.	T	Run-of-mine		2,380	2,520	2,710	9.6	1.8	A69690
Swank	do.	T	2-1/2-inch lump		2,570	2,600	2,680	12.6	1.8	D57791
Do.	do.	T	2-1/2-inch by 0		2,490	2,570	2,620	11.6	1.8	D57792
Thermal No. 14	Upper Freeport	T	Run-of-mine		2,140	2,420	2,540	11.9	2.5	A55187
Adams										
Florence No. 1	Upper Kittanning	T	do.		2,080	2,420	2,520	13.1	2.1	C84389
Do.	Lower Freeport	T	do.		2,780	2,850	2,910+	11.8	.6	C82681
Berlin										
Bittner No. 1	Pittsburgh	T	do.		2,520	2,610	2,710	16.9	2.3	C6590
J. M. Black	Lower Freeport	M		2	2,840	2,910+	-	11.7	.8	A33215 and A33216
Florida No. 1	Sewickley	M		1	2,820	2,850	2,880+	8.4	.9	A32967
Florida No. 2	Pittsburgh	M		1	2,520	2,660	2,800	11.1	1.4	A32968
Foor	Brush Creek	T	3-inch lump		2,390	2,510	2,670	9.3	2.0	D87856
Do.	do.	T	3-inch by 0		2,080	2,370	2,490	10.5	2.3	D87857
Gambert	Pittsburgh Rider	M		2	2,450	2,540	2,660	14.1	2.0	A33374 and A33375
Marie Valley	Pittsburgh	M		2	2,360	2,490	2,610	10.8	2.0	A33228 and A33229
McKee 3 A	Upper Freeport	M		1	2,420	2,540	2,640	8.8	1.3	A33373
McKee 3 B	Lower Freeport	M		3	2,440	2,510	2,640	12.9	1.8	A33369 to A33371
Pen Mar No. 5	Lower Kittanning	M		3	2,240	2,390	2,480	14.3	3.0	A33531 to A33533
Pine Hill	Berlin	M		2	2,760	2,850	2,860+	8.3	1.0	A33455 and A33456
Pine Hill No. 2	Pittsburgh	T	Run-of-mine		2,350	2,510	2,780	14.1	2.1	B31004
Do.	Little Pittsburgh	T	do.		2,760	2,850	2,910+	9.2	1.1	E41247
Ponfeigh Pine Hill	Pittsburgh	T	do.		2,380	2,570	2,680	9.2	1.5	E46711
Quality Pine Hill No. 1	Sewickley	T	do.		2,620	2,690	2,800	10.3	1.8	C6625
Ralphton No. 2	Upper Freeport	T	do.		2,680	2,750	2,840	11.6	1.4	D24179
J. O. Ream	do.	M		2	2,550	2,620	2,680	10.2	1.5	A33906 and A33907
Salco	Lower Kittanning	T	Run-of-mine		2,190	2,440	2,500	8.7	2.3	A2270
Do.	do.	M		1	2,340	2,440	2,520	14.0	2.7	A33535
Seibert & Brandt	Sewickley	M		1	2,440	2,620	2,680	8.6	2.7	86838
Shober	Middle Kittanning	M		2	2,310	2,500	2,620	12.5	2.3	A33225 and A33226
Shober No. 1	Upper Kittanning	T	Run-of-mine		2,570	2,640	2,680	12.2	4.1	D57790
Station	Upper Freeport	T	do.		2,400	2,480	2,560	10.0	2.2	E12753
Do.	Pittsburgh	T	3/8-inch lump		2,720	2,870	2,910+	9.7	1.0	E40927
Do.	do.	T	3/8-inch by 0		2,750	2,820	2,910+	8.8	1.1	E40928
Stein	Middle Kittanning	M		2	2,510	2,630	2,740	10.5	1.4	A33222 and A33223
Stoner No. 1	Lower Freeport	M		1	2,660	2,780	2,860	8.7	1.0	A33912
Stoner No. 2	Upper Freeport	M		2	2,780	2,870	2,890+	8.4	1.0	A33909 and A33910
Troy No. 4	Little Pittsburgh	T	Run-of-mine		2,810	2,910+	-	9.9	.7	D87859
Troy No. 5	do.	T	do.		2,740	2,870	2,910	10.5	.7	E12680
Do.	Lower Freeport	T	do.		2,140	2,370	2,560	11.4	2.7	E83785
Wills No. 2	Upper Freeport	T	do.		2,700	2,770	2,850	13.0	1.4	D24178
Boswell										
Fetterolf	do.	T	2-inch lump		2,890	2,910+	-	10.0	.6	D88606
Do.	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	9.7	.5	D88607
Do.	do.	T	2-inch by 0		2,910+	-	-	7.7	.6	D88608
Fetterolf No. 1	do.	T	5- by 2-inch		2,670	2,740	2,870	9.6	1.4	E43214
Do.	do.	T	2- by 1-inch		2,680	2,750	2,910	12.8	1.4	E43215
Do.	do.	T	1- by 3/4-inch		2,690	2,750	2,910+	13.3	1.6	E43216
Do.	do.	T	3/4-inch by 0		2,540	2,660	2,810	9.1	1.3	E43217

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Somerset County (Con.)										
Boswell										
Orenda	Upper Kittanning	T	2-inch by 0		2,380	2,470	2,680	10.4	1.5	A90088
Orenda No. 1	do.	T	Run-of-mine		2,720	2,820	2,910	9.0	1.4	A61998
Orenda No. 2	do.	T	do.		2,650	2,740	2,770	9.1	1.4	A61554
Somerset Smokeless	Lower Kittanning	T	do.		2,040	2,470	2,580	12.7	3.7	A61573
Wallet	do.	T	do.		2,080	2,470	2,500	11.9	2.9	D38048
Boynton										
Hamilton	Upper Kittanning	T	do.		2,670	2,810	2,900	11.2	1.1	A65179
Cairnbrook										
Huskin No. 3	Lower Kittanning	T	do.		2,750	2,820	2,890	11.4	1.6	A90040
Huskin No. 4	Upper Kittanning	T	do.		2,230	2,490	2,590	10.2	2.2	A90041
Huskin No. 6	Lower Kittanning	T	do.		2,770	2,840	2,900+	10.7	1.4	A90042
Loyal Hanna No. 6	do.	T	do.		-	2,800	-	8.0	1.0	A21299
Thermal No. 11	do.	M		3	-	2,760+	-	6.7	.7	98776 to 98778
Do.	do.	T	Run-of-mine		2,890	2,910+	-	9.7	.9	B30582
Troy No. 8	Middle Kittanning	T	do.		2,190	2,450	2,520	11.5	1.8	C65276
Carpenters Park										
Paint Creek Collieries	Lower Kittanning	T	do.		2,080	2,470	2,570	10.7	2.7	D60450
Casselman										
Marine Smokeless	Upper Kittanning	M		3	2,180	2,370	2,490	12.3	2.2	81232 to 81234
Central City										
Little Valley No. 2	Lower Kittanning	T	Run-of-mine		2,790	2,860	2,910+	15.5	1.6	C4309
Reitz No. 2	do.	T	do.		2,460	2,700	2,790	8.9	1.8	A71255
Do.	do.	T	1-1/4-inch lump		2,290	2,450	2,530	10.5	2.5	B40242
Do.	do.	T	1-1/4-inch by 0		2,330	2,450	2,570	8.9	1.9	B40243
Do.	do.	T	3/4-inch by 0		2,230	2,480	2,600	8.7	1.8	B40245
Do.	do.	T	Run-of-mine		2,400	2,580	2,730	9.7	1.9	B41165
Reitz No. 3	do.	T	do.		2,910+	-	-	11.2	1.3	D60032
Do.	Upper Kittanning	T	do.		2,090	2,240	2,420	13.6	3.0	C27159
Reitz No. 3 1/2	do.	T	do.		2,410	2,560	2,690	10.5	1.5	A97316
Reitz No. 4	Lower Kittanning	T	2-1/2-inch lump		2,380	2,440	2,840	10.1	1.4	C27081
Do.	do.	T	Run-of-mine		2,650	2,820	2,910+	8.4	1.0	E23562
Do.	do.	T	2-1/2- by 3/4-inch		2,380	2,530	2,840	10.1	1.3	E23563
Do.	do.	T	3/4-inch by 0		2,540	2,730	2,910+	7.8	1.0	E23564
Do.	do.	T	1-1/4-inch lump		2,310	2,420	2,620	10.8	1.7	D57786
Do.	do.	T	1-1/4-inch by 0		2,570	2,730	2,840	10.5	1.5	D57788
Coal Junction										
Critchfield	Upper Kittanning	T	Run-of-mine		2,880	2,910+	-	10.4	.8	D93277
Dot No. 1	do.	T	do.		2,910+	-	-	9.2	.9	D93504
Goden No. 2	Upper Freeport	T	do.		2,630	2,690	2,730	9.1	1.2	E21931
Coleman										
Coleman No. 2	Lower Freeport	T	do.		2,490	2,600	2,760	8.4	1.3	D85742
Confluence										
Anspach	Lower Kittanning	T	do.		2,290	2,340	2,510	15.7	2.8	A3890
Do.	do.	M		3	1,960	2,090	2,270	12.2	3.5	A3891 to A3893
Fair Oak	Upper Kittanning	T	Run-of-mine		2,530	2,640	2,840	13.0	1.5	B30980
H. S. Thomas	do.	T	do.		2,020	2,190	2,500	14.4	4.0	D87272

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Elk Lick										
Chapman No. 3	Pittsburgh	M		2	-	3,010+	-	6.2	.9	80785 and 80786
Fort Hill										
Fort View	Lower Kittanning	T	Run-of-mine		2,010	2,310	2,470	8.5	2.4	A41345
Foustwell										
Lochrie-Price No. 1	do.	T	do.		1,970	2,450	2,580	7.6	2.6	A71256
Maple Ridge No. 2	Upper Kittanning	T	1-1/2-inch by 0		2,190	2,260	2,460	10.3	2.0	A71254
Thermal No. 9	Lower Kittanning	T	1-1/4-inch by 0		1,970	2,400	2,550	8.9	3.0	A71382
Do.	do.	T	Run-of-mine		1,970	2,370	2,550	7.7	2.0	A71383
Thermal No. 10	Middle Kittanning	T	do.		2,370	2,520	2,650	11.3	2.2	B30580
Do.	do.	T	1-1/4-inch by 0		2,160	2,410	2,580	10.9	2.4	B30581
Friedens										
Alumbaugh No. 4	Lower Freeport	T	Run-of-mine		2,000	2,210	2,460	8.9	2.1	E40929
Roy No. 1	do.	T	do.		2,760	2,870	2,920	7.5	.7	B14382
Vulcan Slope	do.	T	3/4-inch lump		2,410	2,490	2,740	9.0	1.6	B30701
Do.	do.	T	3/4-inch by 0		2,160	2,420	2,570	7.0	1.7	B30702
Garrett										
Atlantic No. 2	Brookville	M		3	-	2,730+	-	8.6	.9	80995 to 80997
Fogle	Lower Freeport	M		1	2,660	2,720	2,790	13.2	1.4	A33381
Garrett Slope	Upper Kittanning	M		3	2,200	2,540	2,600	10.7	2.6	80885 to 80887
Hillside	Upper Freeport	M		2	2,830	2,900	2,900 (1)	12.6	.8	A33218 and A33219
McAllen	Lower Freeport	M		2	2,740	2,830	2,930	11.5	1.1	80882 and 80883
Moshannon	do.	T	1-1/4-inch lump		2,840	2,900	2,910+	14.3	.8	E12381
Do.	do.	T	1-1/4- by 5/8-inch		2,840	2,910+	-	12.9	.6	E12382
Do.	do.	T	5/8-inch by 0		2,910+	-	-	10.6	.8	E12383
Mountain Valley	Middle Kittanning	T	2-inch by 0		2,790	2,850	2,910	12.2	1.5	A61917
National	Lower Freeport	M		1	2,860	2,890	2,900+	13.0	.7	A33221
Ponfeigh	Upper Kittanning	T	2-inch lump		2,530	2,640	2,800	10.5	2.0	B54812
Do.	do.	T	Run-of-mine		2,530	2,640	2,800	10.5	1.9	B54813
Do.	Sewickley	T	do.		2,780	2,840	2,910	9.2	1.1	D21858
Ponfeigh No. 1	Upper Kittanning	T	do.		2,130	2,310	2,550	12.0	3.7	C27726
Do.	do.	T	do.		2,570	2,660	2,750	11.6	2.1	D21959
Ponfeigh No. 1 A	do.	T	do.		2,350	2,560	2,610	13.5	2.9	C62115
Ponfeigh No. 2	Lower Kittanning	T	do.		2,870	2,940	2,970+	12.1	1.4	A69737
Ponfeigh No. 3	Lower Freeport	M		2	2,790	2,850	2,840 (1)	13.1	1.0	A33212 and A33213
Ponfeigh No. 4	do.	M		3	2,360	2,480	2,580	10.5	2.4	A33377 to A33379
Ponfeigh No. 6	Pine Hill No. 2	T	Run-of-mine		2,420	2,540	2,750	13.0	1.9	D22582
Ponfeigh No. 7	Sewickley	T	do.		2,520	2,620	2,730	15.0	1.8	C61781
Ponfeigh No. 7 A	Pine Hill	T	do.		2,660	2,730	2,870	9.7	1.2	B54942
Ponfeigh No. 7 B	Redstone	T	do.		2,300	2,540	2,660	17.7	3.2	C61782
Ponfeigh Mountain Valley	Sewickley	T	6- by 2-inch		2,730	2,910+	-	9.1	.9	E46778
Do.	do.	T	2- by 1-1/4-inch		2,800	2,910+	-	8.4	.9	E46779
Do.	do.	T	1-1/4-inch by 0		2,880	2,910+	-	6.3	.9	E46780
Ponfeigh Smokeless	Little Pittsburgh	T	Run-of-mine		2,460	2,560	2,690	13.8	1.8	C61690
Ponfeigh Smokeless No. 1	Pine Hill No. 2	T	do.		2,580	2,650	2,740	11.6	1.5	D22036
Gahagen										
Huskins No. 3	Lower Kittanning	T	do.		2,770	2,840	2,930	11.5	1.7	A61541
Huskins No. 6	do.	T	do.		2,810	2,890	2,980+	11.1	1.8	A61605
Grassy Run										
Chapman No. 1	Redstone	T	do.		2,490	2,600	2,820	13.3	1.8	A97291
Gray										
Consolidation No. 123	Upper Freeport	T	2-1/2-inch lump		2,910	2,910+	-	11.6	.6	C28114
Do.	do.	T	2-1/2-inch by 0		2,860	2,910+	-	9.4	.8	C28115
Do.	do.	T	Run-of-mine		2,780	2,860	2,910	11.2	1.1	C61580
Gray No. 3	do.	T	do.		2,550	2,700	2,820	10.5	1.4	D68386
Goden No. 1	do.	T	do.		2,620	2,670	2,800	8.9	1.4	E13450
Saxman No. 1	Lower Kittanning	T	do.		2,050	2,520	2,620	15.0	3.3	D63898
Saxman No. 3	Upper Freeport	T	do.		2,770	2,840	2,900+	11.1	1.1	D63341
Do.	do.	T	do.		2,230	2,460	2,500	16.0	2.7	E22298
Harrison										
Harrison	Upper Kittanning	T	do.		2,380	2,530	2,870	11.1	2.1	B80288

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature °F	Fusibility of Ash: Softening temperature °F	Fusibility of Ash: Fluid temperature °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Somerset County (Con.)										
Harrison										
Harrison	Upper Freeport	T	Run-of-mine		2,890	2,910+	-	13.0	1.0	D63897
Harrison No. 2	Upper Kittanning	T	do.		2,160	2,360	2,550	11.1	2.8	D37785
Hollsopple										
Bethal	Lower Kittanning	T	do.		2,090	2,470	2,650	9.5	2.9	A69923
Haws No. 1	Upper Kittanning	T	do.		2,660	2,750	2,890	9.0	.7	A61427
Do.	do.	T	do.		2,030	2,480	2,630	11.2	2.3	A69804
Kerlin	Lower Kittanning	T	do.		2,170	2,400	2,490	10.4	2.0	E48991
Knickerbocker No. 7	do.	T	do.		2,000	2,340	2,580	9.5	3.1	A80912
Maple Ridge	Upper Kittanning	T	do.		2,070	2,390	2,500	10.3	2.2	A69480
Maple Ridge No. 2	do.	T	do.		2,070	2,220	2,450	12.3	2.8	B82511
Pretoria	do.	T	do.		2,140	2,300	2,570	12.9	2.1	A48310
Shade Creek No. 5	do.	T	do.		2,520	2,600	2,710	9.5	1.5	D38551
Swank No. 15	Lower Kittanning	T	do.		2,180	2,380	2,570	9.4	2.4	D58557
Swank No. 19	do.	T	do.		2,160	2,450	2,660	8.4	2.7	D58556
Hooversville										
Custer No. 1	do.	T	do.		1,980	2,280	2,390	11.2	1.9	A158
Elma No. 1	do.	T	do.		2,050	2,360	2,490	10.7	2.8	B82284
Elma No. 3	Upper Kittanning	T	4-inch lump		2,240	2,500	2,860	11.5	1.9	B82281
Do.	do.	T	4- by 2-inch		2,250	2,560	2,890	12.1	1.9	B82282
Do.	do.	T	2-inch by 0		2,230	2,520	2,680	10.9	2.0	B82283
Knickerbocker No. 1	Lower Kittanning	T	Run-of-mine		2,840	2,860+	-	11.2	1.0	A61400
Knickerbocker No. 2	do.	T	3/4-inch lump		2,210	2,420	2,600	10.2	1.9	A97416
Do.	do.	T	3/4-inch by 0		2,280	2,440	2,620	8.4	1.4	A97417
Knickerbocker No. 4	do.	T	Run-of-mine		2,400	2,850	2,960	9.1	1.3	A67951
Do.	do.	T	1-1/4-inch lump		2,360	2,420	2,620	11.9	1.8	D58892
Do.	do.	T	1-1/4-inch by 0		2,420	2,520	2,680	10.0	1.5	D58893
Knickerbocker No. 6	do.	T	Run-of-mine		2,520	2,760	2,830	8.7	1.3	A61397
Knickerbocker No. 8	do.	T	do.		2,310	2,470	2,560	8.5	1.7	D39014
Old Colony No. 1	Middle Kittanning	T	do.		2,140	2,440	2,610	12.8	2.5	A81229
Old Colony No. 2	Lower Kittanning	T	do.		2,540	2,660	2,780	8.2	1.8	A81230
Roger	do.	T	do.		2,570	2,730	2,890	9.3	1.3	D59661
Soneycreek No. 2	do.	T	do.		2,070	2,400	2,570	11.4	1.6	D58331
Toth No. 2	Upper Kittanning	T	do.		1,940	2,360	2,520	15.8	4.0	D60451
Troy No. 7	Lower Kittanning	T	4- by 2-inch		2,190	2,380	2,490	12.9	2.9	E42578
Do.	do.	T	2-inch by 0		2,330	2,470	2,650	10.8	2.1	E42579
Jenners										
Consolidation No. 119	Upper Kittanning	T	Run-of-mine		2,240	2,400	2,570	10.4	2.2	C61615
Jerome										
Hiyasota	do.	T	do.		2,570	2,620	2,680	10.1	1.2	A90064
Hiyasota No. 2	Upper Freeport	T	2-inch by 0		2,520	2,620	2,860	13.5	2.1	B82513
Jerome	Upper Kittanning	M		3	2,370 (2)	2,910+(1) 2,450 (2)	- 2,750 (2)	6.2	1.1	B2033 to B2035
Jerome	do.	M		1	2,860	2,890	2,920+	7.6	1.0	A56300
Jerome No. 1	do.	T	Run-of-mine		2,680	2,750	2,800	11.3	1.1	D42368
Do.	do.	T	6-inch lump		2,620	2,730	2,910	10.3	.9	C4453
Do.	do.	T	6- by 2-1/8-inch		2,650	2,760	2,910	11.4	1.0	C4454

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Do.	do.	T	2-1/8- by 1-1/4-inch		2,620	2,710	2,910+	13.0	1.0	C4455
Do.	do.	T	1-1/4- by 1/4-inch		2,640	2,750	2,910+	13.7	1.0	C4456
Do.	do.	T	1/4-inch by 48-mesh		2,520	2,640	2,800	8.9	1.0	C4457
Do.	do.	T	48-mesh by 0		2,340	2,400	2,680	7.9	1.2	C4458
Jerome No. 2	do.	M		1	2,920	2,960	2,980+	7.7	.7	A56329
Do.	do.	T	Run-of-mine		2,130	2,230	2,490	11.4	2.9	D42367
Jerome No. 3	Upper Freeport	T	do.		2,680	2,750	2,860	12.5	1.4	C4378
Roof Garden	do.	T	do.		2,520	2,620	2,780	9.5	1.7	D60454
Johnstown (Cambria County)										
Dalton Run	Upper Kittanning	T	do.		2,050	2,290	2,520	11.4	2.3	D66699
Kantner										
Forward No. 2	do.	T	do.		2,540	2,660	2,840	21.7	1.9	D85741
Roy No. 7	do.	T	do.		2,790	2,850	2,910	12.5	1.0	B14408
Sylvania	Lower Freeport	T	do.		2,730	2,790	2,910+	8.7	1.1	E13451
Krings										
Bird No. 1	Upper Kittanning	T	do.		2,690	2,770	2,860	8.5	.9	A80908
Bird No. 2	do.	T	do.		2,590	2,700	2,810	9.1	1.3	A80909
Do.	do.	T	4- by 2-inch		2,610	2,690	2,800	9.2	.9	C26947
Do.	do.	T	2- by 3/4-inch		2,600	2,680	2,790	9.5	.7	C26948
Do.	do.	T	3/4-inch by 0		2,430	2,520	2,760	7.8	.9	C26949
Bird No. 4	Lower Kittanning	T	Run-of-mine		2,700	2,730	2,810	8.6	1.7	A80910
East Windber No. 4	do.	T	do.		2,130	2,360	2,520	9.2	2.6	C63094
East Windber No. 5	Upper Kittanning	T	do.		2,570	2,670	2,730	8.4	.9	C63095
Lambertsville										
Alumbaugh No. 1	do.	T	do.		2,030	2,420	2,540	10.0	2.2	D16285
Estep No. 4	Lower Kittanning	T	do.		2,550	2,710	2,890	11.3	1.8	D89999
Listie										
Denise No. 2	Lower Freeport	T	do.		2,610	2,690	2,850	9.7	1.1	D86161
Listie No. 1	Upper Freeport	T	1-1/4-inch by 0		2,190	2,240	2,340	14.2	2.0	A21824
Do.	do.	T	Run-of-mine		1,900	2,020	2,180	13.3	1.0	A21857
Ralphton No. 11	Upper Kittanning	T	do.		2,530	2,620	2,660	11.0	1.9	A90009
Smithing No. 1	Lower Freeport	T	do.		2,670	2,800	2,850	10.8	.9	A48396
Stauffer No. 1	-	T	do.		2,300	2,400	2,510	12.4	1.4	A33170
Listonburg										
Miller	Upper Kittanning	M		3	1,910	2,170	2,240	12.5	4.0	81348 to 81350
Macdonaldton										
Comstock	Brush Creek	T	3-inch lump		2,050	2,220	2,460	7.8	2.2	D68720
Do.	do.	T	3-inch by 0		1,920	2,180	2,380	11.5	3.0	D68721
Comstock No. 2	do.	T	Run-of-mine		2,260	2,470	2,620	9.0	1.0	D60036
Comstock No. 3	do.	T	do.		1,920	2,220	2,370	14.5	4.3	D60035
Macdonaldton	Lower Kittanning	T	2-inch by 0		2,170	2,470	2,580	13.2	3.0	A61577
Macdonaldton No. 3	Upper Kittanning	T	do.		2,600	2,670	2,750	10.7	1.4	A89964
Macdonaldton No. 5	Lower Kittanning	T	Run-of-mine		2,500	2,610	2,670	12.6	2.1	A89963
Do.	do.	T	1-1/4-inch by 0		2,570	2,620	2,730	13.1	2.2	A97317
Pen Mar No. 3	do.	M		2	2,130	2,350	2,390	14.5	3.6	A33528 and A33529
Scurfield	do.	T	Run-of-mine		2,210	2,500	2,620	14.6	2.9	D23329
Maple Ridge										
Swank No. 30	do.	T	do.		1,950	2,130	2,440	10.0	2.1	E18966
Markelton										
Markelton	Upper Kittanning	T	do.		2,050	2,280	2,410	16.2	3.9	A64431
M. A. Snyder	Lower Kittanning	M		2	2,280	2,570	2,630	13.7	2.9	81229 and 81230
Meyersdale										
Berkley	Pittsburgh	M		1	2,500	2,660	2,780	10.3	1.6	A32850
Black	Upper Freeport	M		2	1,900	2,300	2,450	8.0	2.5	81075 and 81076
Blue Lick	Sewickley	T	Run-of-mine		2,660	2,730	2,820	10.9	1.6	A71665
Consolidation No. 104	Pittsburgh	M		2	2,740	2,960	-	9.1	1.1	80852 and 80853
Do.	do.	T	Run-of-mine		2,420	2,570	2,690	15.3	2.2	A22025
Consolidation No. 105	Redstone	M		4	2,520	2,740	2,850 (3)	12.5	1.5	80855 to 80858
Cramblett No. 1	Pittsburgh	T	Run-of-mine		2,420	2,490	2,620	13.7	1.2	C99742
Do.	Pittsburgh Rider	T	do.		2,800	2,910+	-	13.3	1.0	E18104
Engle	Upper Freeport	M		1	2,850	2,960	3,070	9.6	1.9	86837

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Somerset County (Con.)										
Meyersdale										
Fike	Upper Freeport	M		1	2,290	2,570	2,630	8.4	1.1	86833
Fuel No. 3	Redstone	T	Run-of-mine		2,500	2,650	2,840	14.5	1.6	A97290
Meyersdale Fuel No. 3	do.	M		2	2,490	2,690	2,740 (1)	12.9	1.9	81002 and 81003
Do.	Pittsburgh	M		1	-	2,730+	-	5.8	1.2	81005
Ponfeigh No. 1	Upper Kittanning	T	Run-of-mine		2,370	2,530	2,670	11.9	2.1	B14341
Ponfeigh No. 7	Pittsburgh	T	do.		2,590	2,750	2,870	10.7	1.1	A81061
Ponfeigh No. 7 A	Sewickley	T	do.		2,380	2,480	2,600	10.8	1.7	B14381
Shaw Big Vein No. 1	Pittsburgh	T	do.		2,760	2,860	2,910+	10.5	.8	B14409
Shaw Big Vein No. 2	Redstone	T	do.		2,530	2,620	2,730	14.5	2.1	A64177
Silver Valley	Lower Bakerstown	T	do.		2,030	2,330	2,430	10.2	2.6	A71137
Stotler	Pittsburgh Rider	M		1	2,680	2,740	-	8.5	3.0	86832
E. Stotler & Son	do.	M		1	2,440	2,620	2,730	11.1	2.2	81000
Do.	Redstone	M		2	2,420	2,510	2,580	11.5	1.0	81006 and 81007
New Centerville										
Hennenkamp	Upper Freeport	T	Run-of-mine		2,600	2,710	2,810	12.6	1.3	E42186
Niverton										
Dennis No. 1	Pittsburgh	T	do.		2,470	2,660	2,810	10.2	.7	C65413
Pine Hill										
Consolidation No. 113	Pittsburgh Rider	T	do.		2,440	2,620	2,740	13.2	1.9	A21927
McKee No. 3	Tyson	T	do.		2,750	2,830	2,920	8.4	.9	A64176
Pine Hill No. 2	Pittsburgh	T	do.		2,480	2,650	2,750	11.1	1.7	A71135
Ponfeigh No. 6	do.	T	do.		2,470	2,630	2,780	11.8	1.8	A69397
Quality No. 1	Sewickley	T	do.		2,740	2,780	2,890	9.6	1.4	A81227
Quality No. 2	do.	T	do.		2,910	2,960	-	8.6	.9	A81228
Que Creek										
Harrison	Upper Kittanning	T	do.		2,370	2,460	2,600	12.5	2.2	A33171
Harrison No. 2	do.	T	do.		2,180	2,470	2,520	10.3	2.2	E19808
Saxman No. 2	Upper Freeport	T	do.		2,840	2,910+	-	9.8	1.0	E19807
Ralphton										
Ralphton No. 1	Upper Kittanning	T	do.		2,600	2,680	2,810	9.1	1.5	A61626
Do.	do.	M		1	-	2,910+	-	6.5	.6	B22397
Ralphton No. 4	do.	T	Run-of-mine		2,930	2,990+	-	8.1	.8	A61576
Ralphton No. 5	do.	T	2-inch lump		2,370	2,590	2,710	10.0	1.8	B5837
Do.	do.	T	2-inch by 0		2,370	2,600	2,710	10.6	1.9	B5836
Reels Corners										
Florence No. 3	Lower Freeport	T	Run-of-mine		2,020	2,260	2,500	9.8	3.1	C82684
Rockingham										
Arrow No. 2	Lower Kittanning	T	do.		2,420	2,530	2,620	10.2	1.2	E20072
Arrow No. 3	Middle Kittanning	T	do.		2,760	2,850	2,910+	10.3	1.0	E14217
Costantino	do.	T	do.		2,770	2,870	2,910+	10.5	.9	E15075
Little Valley	Lower Kittanning	T	do.		2,810	2,890	2,910+	8.6	.8	B59817
Mijo No. 1	Lower Freeport	T	do.		2,720	2,800	2,910+	8.3	1.2	E14602
Strabig No. 1	Lower Kittanning	T	do.		2,850	2,910+	-	15.1	1.6	D87476
Rockwood										
Barrie	Lower Freeport	T	do.		2,730	2,780	2,890	11.0	1.2	D24697
Consolidation No. 114	Brookville	T	do.		2,740	2,800	2,910	14.7	1.7	A21899

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Fogle	do.	T	do.		2,910+	-	-	11.1	1.2	D24698
Hays	Lower Freeport	T	do.		2,220	2,450	2,510	12.1	2.2	A21900
MacGregor No. 1	Lower Kittanning	M		2	2,150	2,410	2,550	9.7	2.4	81154 and 81155
Murdock Brothers	do.	M		2	2,110	2,400	2,520	12.8	2.9	81160 and 81161
Natali	Brookville	T	Run-of-mine		2,910+	-	-	10.6	1.0	D59660
Panik	Upper Freeport	T	do.		2,720	2,810	2,910+	19.1	.5	E42187
Quemahoning No. 10	do.	M		3	2,590	2,700	2,770	11.6	1.8	81150 to 81152
Rummel										
Deerfield No. 1	Upper Kittanning	T	Run-of-mine		2,660	2,760	2,840	13.4	.7	D87721
Salisbury										
Compton	-	M		3	2,230	2,410	2,510	6.7	2.2	86827 to 86829
Davis	Lower Kittanning	M		1	2,340	2,570	2,630	7.0	1.0	86834
Opal	-	M		1	2,280	2,510	2,570	7.6	.9	86835
Scalp Level										
Reitz No. 5	Upper Kittanning	T	Run-of-mine		2,140	2,470	2,620	10.4	2.1	E16169
Do.	do.	T	2-1/2-inch lump		2,440	2,600	2,680	10.2	1.8	E16170
Do.	do.	T	2-1/2-inch by 0		2,060	2,440	2,540	10.6	2.1	E16171
Shamrock										
Ruth	Lower Kittanning	T	Run-of-mine		2,140	2,330	2,570	13.6	4.1	C5302
Shanksville										
Denise No. 1	Lower Freeport	T	do.		2,540	2,710	2,820	8.0	.8	E17900
Fairview	Upper Freeport	T	do.		2,570	2,680	2,700	12.0	2.1	C66516
Shade No. 7	Lower Freeport	T	do.		2,060	2,280	2,500	8.7	2.5	E41098
Shipley										
Shipley No. 1	Upper Kittanning	T	do.		2,020	2,390	2,450	13.2	2.8	A344
Sipesville										
Berkey	Upper Freeport	T	do.		2,800	2,910	2,910+	10.7	1.0	C5303
Somerset										
Alumbaugh No. 2	do.	T	do.		2,420	2,620	2,680	14.8	2.1	D60037
Stoney Creek										
Country Bank	-	M		1	1,970	2,340	2,390	9.1	2.5	87002
Stoystown										
Flick No. 5	Lower Freeport	T	Run-of-mine		2,870	2,910+	-	7.9	.8	E14212
Forward No. 1	Lower Kittanning	T	do.		2,690	2,810	2,910+	8.2	1.3	E41754
Forward No. 2	Middle Kittanning	T	do.		2,910+	-	-	20.2	1.2	D60031
Hite No. 1	Upper Kittanning	T	do.		2,450	2,590	2,710	11.0	2.0	A69522
Maust No. 2	Lower Kittanning	T	do.		2,160	2,500	2,610	13.7	2.8	A71163
Paul	Lower Freeport	T	do.		2,520	2,620	2,780	12.7	1.7	D56515
Paul No. 1	do.	T	3/4-inch lump		2,380	2,480	2,600	13.2	2.3	E41752
Do.	do.	T	3/4-inch by 0		2,560	2,650	2,740	9.3	1.7	E41753
Paul Prospect	Lower Kittanning	M		1	2,150	2,470	2,550	11.8	2.8	D20224
Ralphton No. 15	do.	T	Run-of-mine		2,850	2,920	2,970	9.3	1.4	A70094
Reading No. 5	Lower Freeport	T	do.		-	2,870+	-	6.5	.6	A89766
Do.	do.	T	do.		2,260	2,510	2,680	10.4	2.1	C27713
Ridgefield	Upper Freeport	T	do.		2,280	2,400	2,500	13.3	2.7	C65414
Royal No. 1	Upper Kittanning	T	2-inch lump		2,440	2,540	2,650	14.6	2.4	C5696
Do.	do.	T	2-inch by 0		2,150	2,330	2,580	12.5	2.7	C5697
Royal No. 2	Lower Freeport	T	Run-of-mine		2,700	2,780	2,910	8.0	.7	B14217
Vulcan No. 1	do.	T	do.		2,210	2,470	2,570	9.3	2.0	D38552
Summit Mills										
Handiverk	do.	M		1	2,620	2,740	-	9.9	1.8	86831
Johnson	Upper Freeport	M		1	2,680	2,740	-	9.1	3.2	86836
Thomas Mills										
Benscreek No. 1	do.	T	Run-of-mine		2,510	2,620	2,750	12.5	1.8	D92446
Lohr No. 1	do.	T	do.		2,350	2,540	2,700	11.8	2.0	D91548
Hiyasota	do.	T	do.		2,570	2,600	2,660	11.4	1.7	D15855
Yeager	do.	T	do.		2,290	2,500	2,580	12.5	2.0	E19497
Ursina										
Ursina Mill	do.	M		1	2,800	2,910	3,020	13.5	1.2	81352
Do.	Upper Kittanning	M		3	2,200	2,350	2,410	13.2	3.8	82582 to 82584

1. M mine sample; T, tipple sample. 2. W washed.

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1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Somerset County (Con.)										
Windber										
Beechnut	Lower Kittanning	T	Run-of-mine		2,030	2,420	2,570	12.0	2.7	D60455
B Quality No. 8	Middle Kittanning	T	do.		2,230	2,580	2,660	11.9	2.8	E26158
Eureka No. 31	Lower Kittanning	T	do.		2,110	2,340	2,390	8.9	1.5	A21106
Eureka No. 35	do.	T	do.		2,560	2,640	2,700	6.8	1.4	A21056
Eureka No. 36	do.	T	do.		2,190	2,510	2,570	7.2	1.6	A20954
Helen Jennings	do.	T	do.		2,840	2,910+	-	6.3	.6	B82099
Hillside No. 1	Upper Kittanning	T	do.		1,960	2,190	2,410	10.1	2.0	A2305
Ogletown No. 2	Lower Kittanning	T	do.		2,140	2,320	2,520	9.8	2.0	D87722
Ott	do.	T	do.		2,080	2,260	2,560	10.7	2.3	D85743
Pot Ridge No. 1	Brookville	T	do.		2,570	2,670	2,720	10.1	3.5	C65703
Thermal No. 12	Lower Kittanning	T	do.		2,700	2,800	-	5.9	.7	98775
Do.	do.	M		3	-	3,000+	-	4.3	.6	98979 to 98981
Troy No. 3	do.	T	Run-of-mine		2,010	2,330	2,590	13.9	2.4	C6031
Windber Hi-Standard	do.	T	do.		1,940	2,470	2,570	10.5	1.8	D60453
Windber Superior	Upper Kittanning	T	do.		2,360	2,570	2,680	10.0	4.2	D60452
Tioga County										
Antrim										
Antrim	Seymour	T	3/4- by 3/8-inch		2,620	2,710	2,890	12.0	1.8	B50122
Do.	do.	T	3/8-inch by 0		2,570	2,670	2,880	10.6	1.8	B50123
Meredith	Bloss	M		1	2,110	2,240	2,450	9.1	2.5	82052
Arnot										
Blossburg No. 1	do.	M		3	2,950 (1)	3,010+(2) 3,010 (1)	-	16.4	.8	82251 to 82253
Morris Run										
Morris Run	Seymour	T	Run-of-mine (W)		2,150	2,460	2,630	12.1	2.8	B55369
Do.	Bloss	T	3/4-inch by 0 (W)		2,680	2,790	2,910+	8.9	1.2	B55370
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,710	2,810	2,910+	17.7	1.4	B55371
Do.	do.	T	2-1/2- by 1-1/2-inch (W)		2,780	2,870	2,910+	18.6	1.1	B55372
Morris Run No. 12	do.	M		2	-	2,990	-	9.0	.7	82229 and 82230
Morris Run No. 13	Seymour	M		3	2,250	2,440	2,520	8.9	2.8	82232 to 82234
Morris Run No. 16	Morgan	M		3	2,820	2,940	2,990	11.7	1.6	82224 to 82226
Venango County										
Barkeyville										
Ray	Brookville	T	Run-of-mine		1,950	2,100	2,310	12.0	5.9	B55324
Do.	do.	T	2- by 1/2-inch		1,990	2,120	2,250	11.4	6.2	B55325
Do.	do.	T	1/2-inch by 0		2,070	2,110	2,390	11.2	5.2	B55326
Do.	do.	T	1-1/4-inch by 0		2,020	2,090	2,390	10.4	4.7	B55327
Do.	do.	T	2-1/2- by 2-inch		2,080	2,110	2,210	12.2	6.5	B55328
Washington County										
Arden										
Arden No. 2	Pittsburgh	M		1	1,940	2,200	2,340	8.0	2.7	80529

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Atlasburg										
Atlas	do.	T	2-inch lump		2,460	2,580	2,750	8.2	2.0	B26896
Do.	do.	T	2- by 1-1/4-inch		2,380	2,480	2,650	11.0	2.5	B26897
Do.	do.	T	1-1/4-inch by 0		2,050	2,220	2,460	12.1	2.6	B26898
Avella										
Aurora	do.	T	5- by 2-inch (W)		1,990	2,080	2,440	7.2	4.4	B63673
Do.	do.	T	2- by 1-1/4-inch (W)		1,990	2,150	2,430	7.8	4.3	B63674
Do.	do.	T	1-1/4- by 3/8-inch (W)		1,990	2,150	2,430	7.9	4.2	B63675
Do.	do.	T	3/4-inch by 0		2,080	2,260	2,470	20.2	4.0	B63676
Do.	do.	T	3/8-inch by 0		2,000	2,200	2,420	19.6	3.8	B63677
Jefferson	do.	T	6-inch lump		1,920	2,100	2,410	7.0	2.6	B63739
Do.	do.	T	6- by 3/4-inch		2,040	2,360	2,490	12.9	2.4	B63740
Do.	do.	T	3/4-inch by 0		2,150	2,440	2,700	18.8	2.4	B63741
Pittsburgh Terminal No. 9	do.	M		5	2,060	2,170	2,400	7.1	4.1	A96444 to A96448
Rainbow	do.	T	6- by 2-1/2-inch (W)		1,890	2,040	2,460	6.8	3.3	B40632
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		1,920	2,230	2,400	7.7	3.2	B40633
Do.	do.	T	1-1/4- by 3/8-inch (W)		1,930	2,270	2,400	7.3	2.7	B40634
Do.	do.	T	3/8-inch by 0		2,000	2,350	2,490	20.5	3.4	B40635
Waverly	do.	T	Run-of-mine		1,920	2,030	2,360	7.3	2.8	C86532
Do.	do.	T	4-inch lump		1,910	2,010	2,370	6.4	2.9	E65972
Do.	do.	T	4- by 2-inch		1,900	2,010	2,360	6.1	2.8	E65973
Do.	do.	T	2- by 1-1/4-inch		1,940	2,180	2,420	10.1	2.8	E65974
Do.	do.	T	1-1/4- by 3/8-inch		1,950	2,170	2,350	10.0	3.0	E65975
Do.	do.	T	3/8-inch by 0		1,970	2,050	2,380	13.7	3.5	E65976
Bentleyville										
Gibson	do.	T	4-inch lump		2,620	2,760	2,830	4.4	.8	B23307
Do.	do.	T	4- by 1-1/8-inch		2,590	2,690	2,820	7.7	1.0	B23308
Do.	do.	T	1-1/8-inch by 0		2,300	2,470	2,650	9.3	1.1	B23310
Wilson	do.	T	4-inch lump		2,590	2,750	2,850	6.3	.9	B23361
Do.	do.	T	4- by 2-inch		2,740	2,820	2,920+	4.6	.8	B23362
Do.	do.	T	2-inch by 0		2,270	2,420	2,630	9.9	1.3	B23363
Besco										
Champion	do.	M		3	2,210	2,370	2,430	7.3	1.4	83850 to 83852
Hupp Country Bank	Waynesburg	M		1	2,010	2,150	2,220	16.4	4.4	84427
Bulger										
Bulger	Pittsburgh	T	8-inch lump		2,100	2,230	2,510	8.9	2.9	B63503
Do.	do.	T	8- by 2-inch		2,130	2,520	2,680	9.7	2.7	B63504
Do.	do.	T	2-inch by 0		2,100	2,230	2,510	16.3	3.9	B63505
Primrose No. 4	do.	T	4-inch lump		2,470	2,540	2,620	5.8	1.5	D33492
Do.	do.	T	4- by 2-1/4-inch		2,050	2,380	2,440	12.8	2.1	D33493
Do.	do.	T	2-1/4-inch by 0		2,530	2,590	2,740	8.4	1.4	D33494
Burgettstown										
Brimmer Brothers	do.	M		2	2,030	2,160	2,390	12.4	3.5	B12269 and B12270
Florence	do.	T	Run-of-mine		2,040	2,250	2,490	13.6	4.5	B56031
Do.	do.	T	5-inch lump		2,140	2,490	2,590	8.0	2.3	E13304
Do.	do.	T	5- by 2-inch (W)		2,530	2,560	2,610	8.8	2.1	E13305
Do.	do.	T	2- by 5/8-inch (W)		2,210	2,530	2,630	8.9	2.2	E13306
Do.	do.	T	5/8-inch by 0 (W)		2,080	2,250	2,470	17.7	3.2	E13307
Do.	do.	T	4-inch lump		1,970	2,060	2,420	8.9	3.3	E65694
Francis	do.	T	Run-of-mine		1,970	2,180	2,470	10.6	3.5	D73441
Saxton	do.	T	do.		2,280	2,470	2,580	15.6	2.6	B65983
Thomassy's	do.	T	do.		2,210	2,500	2,730	9.5	2.2	B62874
California										
Crescent No. 1	do.	T	2-inch lump		2,540	2,710	2,920+	6.0	.8	B23500
Do.	do.	T	2- by 1-1/8-inch		2,620	2,730	2,840	9.3	1.0	B23501
Do.	do.	T	1-1/8-inch by 0		2,270	2,420	2,670	9.4	1.2	B23502
Cannonsburg										
Hazel	do.	T	4- by 2-inch (W)		2,310	2,460	2,690	5.9	1.5	B34537
Do.	do.	T	2- by 1-1/8-inch (W)		2,270	2,480	2,680	8.5	1.6	B34538
Magnolia	do.	T	2-1/2-inch lump		2,050	2,280	2,420	5.4	1.7	D33488

1/ M, mine sample; T, tipple sample 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Washington County (Con.)										
Cannonsburg										
Magnolia	Pittsburgh	T	2-1/2- by 1-1/4-inch		1,940	2,080	2,360	8.6	2.3	D33489
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,080	2,380	10.6	2.7	D33490
Do.	do.	T	3/4-inch by 0		1,990	2,130	2,370	13.3	3.0	D33491
Charleroi										
Charleroi	do.	T	1-1/4-inch lump		2,330	2,530	2,800	5.5	1.0	B23338
Do.	do.	T	1-1/4-inch by 0		2,360	2,490	2,680	9.0	1.4	B23339
Clarksville (Greene County)										
Clyde No. 3	do.	T	6-inch lump		2,440	2,620	2,840	5.1	.9	B23554
Do.	do.	T	6- by 2-1/2-inch		2,580	2,730	2,840	5.3	.8	B23555
Do.	do.	T	2-1/2-inch by 0		2,360	2,440	2,780	7.1	1.2	B23556
Denbo										
Baker Country Bank	Sewickley	M		1	2,060	2,130	2,150	13.0	4.0	84010
Ropp Country Bank	Waynesburg	M		1	2,030	2,220	2,280	17.7	2.5	84009
Eldersville										
Sasso No. 1	Pittsburgh	T	7- by 2-1/2-inch (W)		1,920	1,970	2,420	6.5	3.5	D23713
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		1,920	2,100	2,490	8.5	3.6	D23714
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,000	2,080	2,440	7.7	3.3	D23715
Do.	do.	T	3/8-inch by 0		2,050	2,130	2,380	24.9	4.6	D23716
Fredericktown										
Clyde No. 1	do.	T	Run-of-mine		2,300	2,470	2,680	7.1	1.0	B29368
Hendersonville										
Henderson	do.	T	4-inch lump		1,940	2,130	2,410	6.1	2.1	B27528
Do.	do.	T	4- by 3/4-inch		2,120	2,420	2,570	10.1	2.1	B27529
Do.	do.	T	3/4-inch by 0		2,050	2,180	2,390	13.4	2.5	B27530
Hickory										
Rae	do.	T	2-inch lump		2,360	2,570	2,760	5.5	1.3	B24771
Do.	do.	T	2- by 1-1/2-inch		2,340	2,550	2,690	9.2	1.8	B24772
Do.	do.	T	1-1/2-inch by 0		1,960	2,180	2,390	10.5	2.5	B24773
Houston										
Champion No. 2	do.	T	4-inch lump		2,110	2,360	2,660	5.5	1.5	B27558
Do.	do.	T	4- by 2-inch (W)		2,120	2,410	2,670	6.3	1.5	B27559
Do.	do.	T	2- by 1-1/8-inch (W)		2,140	2,440	2,700	7.7	1.7	B27560
Do.	do.	T	1-1/8-inch by 0		2,120	2,210	2,430	12.4	2.2	B27561
Midland	do.	T	Run-of-mine		2,420	2,470	2,570	7.0	1.8	A84015
Do.	do.	T	4-inch lump		2,380	2,510	2,680	4.8	1.4	B26606
Do.	do.	T	2- by 1-1/8-inch		2,190	2,470	2,640	9.6	1.9	B26607
Do.	do.	T	1-1/8-inch by 0		2,080	2,250	2,570	12.0	2.1	B26608
Langloth										
Langloth	do.	T	5-inch lump		1,960	2,180	2,370	8.0	2.9	B25324
Do.	do.	T	5- by 2-inch		1,910	2,170	2,410	10.4	3.4	B25325
Do.	do.	T	2- by 1-1/8-inch		1,960	2,260	2,440	14.8	3.5	B25326
Do.	do.	T	1-1/8-inch by 0		2,000	2,150	2,310	17.6	3.9	B25327
Lincoln Hill										
Lincoln Hill	do.	T	5-inch lump		2,030	2,230	2,520	5.1	1.8	B25198
Do.	do.	T	5- by 2-1/2-inch		2,030	2,300	2,520	8.1	2.0	B25199
Do.	do.	T	2-1/2- by 1-1/2-inch		2,040	2,380	2,520	11.4	2.5	B25200

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Do.	do.	T	1-1/2- by 5/8-inch		1,950	2,280	2,450	11.4	2.7	B25201
Do.	do.	T	5/8-inch by 0		1,980	2,130	2,370	12.7	2.7	B25202
McDonald										
McDonald	do.	T	4-inch lump		2,540	2,620	2,800	6.4	1.6	B26936
Do.	do.	T	4- by 2-inch		2,450	2,570	2,700	7.4	1.7	B26937
Do.	do.	T	2-inch by 0		2,320	2,540	2,760	12.2	1.8	B26938
Meadow Lands										
Rich Hill	do.	T	4-inch lump		2,600	2,690	2,840	4.1	1.1	B62928
Do.	do.	T	4- by 2-inch		2,430	2,560	2,680	6.4	1.6	B62929
Do.	do.	T	2- by 1-1/4-inch		2,400	2,540	2,680	9.8	1.8	B62930
Do.	do.	T	1-1/4-inch by 0		2,410	2,510	2,660	12.3	2.2	B62931
Midway										
Dickson	do.	T	2-1/2-inch lump		2,470	2,550	2,650	8.0	1.8	D34664
Do.	do.	T	2-1/2-inch by 0		2,420	2,570	2,760	12.3	1.8	D34665
Millsboro										
Agnes	do.	M		3	2,120	2,210	2,270	9.0	1.7	83966 to 83968
Muse										
National No. 3	do.	T	4-inch lump		2,130	2,420	2,490	5.4	1.6	B63831
Do.	do.	T	1-1/4-inch lump		2,430	2,540	2,660	8.0	1.6	B63832
Do.	do.	T	4- by 1-1/4-inch		2,080	2,410	2,540	11.1	2.1	B63833
Do.	do.	T	1-1/4-inch by 0		2,080	2,440	2,630	10.9	2.0	B63834
Ontario										
Ontario	do.	T	Run-of-mine		2,500	2,590	2,820	8.2	1.2	B63313
Do.	do.	T	4-inch lump		2,480	2,640	2,790	6.4	1.2	B63314
Do.	do.	T	4- by 1-1/4-inch		2,410	2,680	2,810	8.3	1.0	B63315
Do.	do.	T	1-1/4-inch by 0		2,240	2,320	2,730	8.8	1.3	B63316
Raccoon (Joffre)										
Sasso No. 5	do.	T	8-inch lump		2,390	2,500	2,640	6.3	2.0	D930
Do.	do.	T	8-inch by 0		2,180	2,420	2,650	15.1	2.7	D931
Do.	do.	T	Run-of-mine		2,000	2,050	2,450	12.2	4.5	D24396
Studa										
Cedar Grove	do.	T	2-inch lump		1,960	2,110	2,460	7.4	3.2	B26904
Do.	do.	T	2- by 1-1/4-inch		1,970	2,220	2,460	10.8	3.5	B26905
Do.	do.	T	1-1/4-inch by 0		2,020	2,230	2,440	15.4	3.6	B26906
Treveskyn										
National No. 2	do.	M		3	2,160	2,240	2,360	7.1	1.5	A8268 to A8270
Van Voorhis										
Soudan	do.	M		4	2,400	2,480	2,680	5.6	1.3	A93542 to A93545
Do.	do.	T	Run-of-mine		2,410	2,550	2,780	7.1	1.2	A93547
Do.	do.	T	1-1/4-inch lump		2,220	2,460	2,680	6.5	1.5	B23437
Do.	do.	T	1-1/4-inch by 0		2,130	2,230	2,530	9.4	1.7	B23438
Venice										
Morris	do.	T	5-inch lump		1,930	2,080	2,430	6.0	2.7	E53105
Do.	do.	T	5- by 2-1/4-inch (W)		1,920	2,130	2,450	7.7	3.0	E53106
Do.	do.	T	2-1/4- by 1-1/4-inch (W)		1,940	2,140	2,460	9.4	3.1	E53107
Do.	do.	T	1-1/4- by 5/8-inch (W)		1,870	2,100	2,440	9.2	3.3	E53108
Do.	do.	T	5/8- by 1/8-inch (W)		1,980	2,100	2,440	8.9	3.1	E53109
Do.	do.	T	1/8-inch by 0		2,020	2,140	2,420	21.3	4.1	E53110
Washington										
Country Club	do.	T	4-inch lump		2,420	2,470	2,590	5.0	1.5	D34659
Do.	do.	T	4- by 2-inch		2,080	2,300	2,500	9.4	1.8	D34660
Do.	do.	T	2- by 1-1/4-inch		2,310	2,390	2,590	12.8	2.0	D34661
Do.	do.	T	1-1/4- by 3/4-inch		2,190	2,440	2,620	14.9	2.0	D34662
Do.	do.	T	3/4-inch by 0		2,080	2,380	2,550	18.2	2.3	D34663
Lincoln	do.	T	5-inch lump		2,000	2,120	2,430	5.4	2.3	B55754
Do.	do.	T	5- by 2-1/2-inch		2,110	2,320	2,580	7.6	1.9	B55755
Do.	do.	T	2-1/2- by 1-1/8-inch		2,330	2,520	2,680	9.8	1.8	B55756
Do.	do.	T	1-1/8- by 1/2-inch		2,190	2,500	2,630	7.1	1.6	B55757
Do.	do.	T	1/2-inch by 0		2,090	2,350	2,560	11.4	1.9	B55758
Tyler	do.	T	4-3/4-inch lump		1,970	2,250	2,520	5.2	2.3	B24145
Do.	do.	T	4-3/4- by 1-5/8-inch		2,150	2,360	2,520	7.4	2.0	B24146
Do.	do.	T	1-5/8- by 3/4-inch		1,910	2,340	2,470	10.6	2.5	B24147

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Washington County (Con.)										
Washington										
Tyler	Pittsburgh	T	3/4-inch by 0		2,020	2,130	2,460	11.9	2.7	B24148
Washington	do.	T	3-1/2-inch lump		2,030	2,150	2,470	5.6	2.1	D34925
Do.	do.	T	3-1/2- by 2-1/16-inch		2,360	2,450	2,600	8.5	1.9	D34926
Do.	do.	T	2-1/16- by 1-1/4-inch		2,340	2,470	2,580	10.0	1.9	D34927
Do.	do.	T	1-1/4-inch by 0		2,050	2,130	2,420	10.3	2.1	D34928
West Brownsville										
Driftwood	do.	M		1	2,130	2,260	2,590	7.9	2.1	A93548
Junction	do.	T	Run-of-mine		2,560	2,720	2,880	10.0	1.2	B54690
Lilley	do.	M		5	2,580	2,690	2,870+(1) 2,820 (4)	7.5	1.0	A93532 to A93536
Do.	do.	T	4-inch lump		2,880	2,910+	-	8.1	.9	B29514
Do.	do.	T	4- by 2-inch		2,740	2,820	2,910+	8.3	1.0	B29515
Do.	do.	T	2- by 1-1/4-inch		2,690	2,770	2,910+	10.0	1.0	B29516
Do.	do.	T	1-1/4-inch by 0		2,400	2,570	2,740	11.7	1.3	B29517
Do.	do.	T	Run-of-mine		2,680	2,750	2,870	8.6	1.0	B29732
Vesta No. 7	do.	M		3	2,450	2,660	-	8.7	1.1	83962 to 83964
Westmoreland County										
Adamsburg										
Adamsburg	Redstone	M		2	2,540	2,650	2,700	9.3	1.5	84158 and 84159
Do.	do.	T	Run-of-mine		2,130	2,440	2,580	11.2	2.6	A64315
Do.	do.	T	4-inch lump		2,520	2,590	2,740	10.9	2.3	B55523
Do.	do.	T	4- by 2-inch		2,560	2,620	2,740	10.5	2.2	B55524
Do.	do.	T	2-inch by 0		2,100	2,360	2,510	11.7	2.5	B55525
Do.	do.	T	2- by 1-1/8-inch		2,180	2,510	2,660	11.9	2.5	B55526
Do.	do.	T	1-1/8-inch by 0		2,100	2,340	2,490	15.2	2.6	B55527
Edna No. 1	Pittsburgh	T	3-inch lump		2,390	2,540	2,660	8.7	2.1	B23979
Do.	do.	T	3- by 1-inch		2,520	2,620	2,710	8.7	2.0	B23980
Do.	do.	T	1-inch by 0		2,400	2,560	2,730	11.3	1.9	B23981
Tomajko	Redstone	T	2-inch lump		2,180	2,480	2,630	12.2	2.8	B63199
Do.	do.	T	2-inch by 0		2,170	2,470	2,610	10.9	2.6	B63200
Alverton										
Ross Fox Country Bank	Sewickley	M		1	2,130	2,240	2,340	8.0	2.3	85353
Apollo (Armstrong County)										
Dorg	Upper Freeport	T	5-inch lump		2,000	2,080	2,450	7.8	3.8	E67551
Do.	do.	T	5- by 1-1/4-inch		1,960	2,140	2,510	10.0	3.0	E67552
Do.	do.	T	1-1/4- by 1/4-inch		1,990	2,230	2,520	10.3	2.5	E67553
Do.	do.	T	1/4-inch by 0		1,940	2,170	2,480	10.7	3.4	E67554
Marco	do.	T	4-1/2- by 2-1/2-inch		1,930	2,130	2,500	8.8	2.7	E65092
Do.	do.	T	2-1/2- by 1-1/2-inch		1,980	2,130	2,500	8.2	2.6	E65093
Do.	do.	T	1-1/2- by 3/4-inch		2,000	2,220	2,530	8.1	2.4	E65094
Do.	do.	T	3/4- by 3/8-inch		2,000	2,220	2,520	7.8	2.5	E65095
Do.	do.	T	3/8-inch by 0		1,990	2,270	2,520	13.3	2.9	E65096
Paulton	do.	M		3	2,010	2,180	2,230	8.2	2.1	85664 to 85666
Roaring Run	do.	T	2- by 1-1/2-inch		2,140	2,420	2,630	10.7	2.3	B64159
Do.	do.	T	1-1/2- by 1/2-inch		2,140	2,330	2,570	9.2	2.2	B64160

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Do.	do.	T	1/2-inch by 0		2,040	2,270	2,500	9.0	2.5	B64161
Shaffer	do.	T	Run-of-mine		2,030	2,100	2,440	9.2	2.4	D42978
Blairsville (Indiana County)										
Forbes Farm Outcrop	Bakerstown	M		1	2,030	2,260	2,470	14.1	1.3	B42598
Hart Farm	Upper Freeport	M		1	2,420	2,520	2,640	7.5	1.6	B42600
Packsaddle No. 1	do.	M		2	2,370	2,480	2,540	8.1	1.3	85403 and 85404
Ramaley South	Bakerstown	M		1	2,160	2,440	2,630	12.7	2.8	B42599
Bolivar										
Bolivar	Upper Freeport	T	Run-of-mine		1,940	2,260	2,440	13.7	4.0	A61426
Ellen No. 1	Lower Freeport	T	do.		2,100	2,150	2,360	11.7	2.6	D38917
McFeeley Brick	Lower Kittanning	M		2	2,130	2,260	2,390	9.3	3.2	85576 and 85577
Do.	Upper Freeport	M		2	2,100	2,230	2,340	8.4	3.3	85579 and 85580
Monarch No. 1	do.	T	Run-of-mine		2,110	2,410	2,510	17.0	2.5	A26755
Do.	do.	T	2-3/4-inch lump		1,970	2,100	2,410	14.2	3.7	A44564
Do.	do.	T	2-3/4-inch by 0		2,440	2,590	2,730	12.1	1.6	A44565
Monarch No. 2	do.	T	Run-of-mine		2,100	2,330	2,580	12.5	2.6	A81276
Ridgeview No. 1	do.	T	do.		2,060	2,370	2,450	18.7	3.4	A103
Bovard										
Crow's Nest	Pittsburgh	T	do.		2,570	2,700	2,860	9.3	1.3	B24262
Do.	do.	T	1-1/4- by 1/2-inch		2,630	2,760	2,920	13.3	1.3	B41077
Do.	do.	T	1/2-inch by 0		2,590	2,680	2,830	11.5	1.4	B41076
Bradenville										
Atlantic No. 2	do.	T	Run-of-mine		2,530	2,620	2,750	11.7	1.7	A71542
Do.	do.	T	1/2-inch lump		2,450	2,560	2,760	12.5	2.2	B23941
Do.	do.	T	1/2-inch by 0		2,260	2,480	2,760	11.4	2.4	B23943
Duquesne	do.	T	2- by 1-1/4-inch		2,440	2,530	2,760	23.7	3.5	C3958
Do.	do.	T	1-1/4- by 3/4-inch		2,420	2,530	2,760	19.8	2.8	C3959
Do.	do.	T	3/4-inch by 0		2,590	2,670	2,810	11.7	2.0	C3960
Calumet										
Dillon	-	T	Run-of-mine		2,470	2,570	2,650	14.6	1.7	D409
Claridge										
Hall No. 7	Pittsburgh	T	do.		2,470	2,580	2,680	7.9	.7	D25126
McCullough	do.	T	4-inch lump		2,500	2,580	2,690	6.7	1.7	B28374
Do.	do.	T	4- by 1-1/4-inch		2,490	2,610	2,760	8.3	1.8	B28375
Do.	do.	T	1-1/4-inch by 0		2,410	2,540	2,680	9.1	2.0	B28376
Cokeville										
Graff	do.	T	Run-of-mine		1,960	2,410	2,570	14.7	2.9	B24170
Darlington										
Segar	Upper Freeport	M		2	1,880	2,090	2,200	13.0	3.7	85350 and 85351
Shirley	Lower Freeport	M		2	1,900	2,070	2,150	8.8	2.6	85347 and 85348
Darragh										
Keystone Shaft	Pittsburgh	T	3/4-inch lump		2,730	2,820	2,910+	8.1	1.0	B27489
Do.	do.	T	3/4-inch by 0		2,500	2,620	2,800	10.2	1.5	B27490
Derry										
Decco	Upper Freeport	M		2	2,600	2,690	2,750	11.4	1.6	85344 and 85345
Donohoe										
Custom Bank	do.	M		2	1,940	2,170	2,240	7.2	2.0	85335 and 85336
Edna										
J. L. Meyers Bank	Sewickley	M		1	1,840	1,990	2,040	14.1	3.8	84738
Eisaman										
Country Bank	Mahoning	M		1	2,200	2,280	2,330	11.0	2.8	81073
Delvitto	do.	M		2	1,870	1,970	2,050	8.4	3.1	84735 and 84736
Export										
Elizabeth	Pittsburgh	M		3	2,300	2,410	2,490	5.7	1.3	84758 to 84760
Export	do.	T	3/4-inch lump		2,560	2,650	2,790	8.2	1.7	B23884
Do.	do.	T	3/4-inch by 0		2,490	2,600	2,730	10.9	1.8	B23885
Fitz Henry										
Euclid	do.	T	Run-of-mine		2,700	2,760	2,910+	8.7	1.0	B30206
Freeport (Armstrong County)										
Venturini	Upper Freeport	T	do.		2,110	2,430	2,540	10.8	2.3	E67241

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Westmoreland County (Con.)										
Hannastown										
Jamison No. 2	Pittsburgh	T	2- by 1-1/4-inch		2,550	2,690	2,840	7.9	1.3	B26444
Do.	do.	T	1-1/4- by 1/2-inch		2,690	2,740	2,860	7.9	1.2	B26445
Do.	do.	T	Run-of-mine		2,680	2,790	2,910+	7.5	1.1	B26446
Haydenville										
Hilltop	Redstone	M		2	1,870	1,990	2,050	9.3	3.0	85341 and 85342
Herminie										
Edwards No. 4	Waynesburg	M		2	2,370	2,480	2,540	21.6	3.4	81157 and 81158
Fairhaven	do.	M		2	2,330	2,390	2,450	19.7	2.9	84664 and 84665
Hillside										
Graff No. 1	Pittsburgh	T	Run-of-mine		2,030	2,350	2,430	9.3	3.1	A71379
Graff No. 2	do.	T	do.		2,120	2,440	2,540	12.8	2.5	A51834
Hostetter										
Jamison No. 21	do.	T	2-inch lump		2,740	2,910	2,910+	13.5	1.2	B97097
Do.	do.	T	2- by 3/4-inch		2,740	2,890	2,910+	12.7	1.2	B97098
Do.	do.	T	3/4-inch by 0		2,690	2,740	2,850	8.9	1.3	B97099
Huff (Indiana County)										
Lawson Prospect	Bakerstown	M		1	1,990	2,110	2,390	20.9	4.3	81072
Humphrey										
Humphreys	Pittsburgh	T	4-inch lump		-	2,900+	-	10.3	.8	B29924
Do.	do.	T	4- by 1-1/4-inch		2,890	2,910+	-	10.3	.8	B29925
Do.	do.	T	1-1/4-inch by 0		2,790	2,840	2,910+	8.5	1.0	B29926
Do.	do.	T	Run-of-mine		2,760	2,820	2,910+	9.0	1.1	B30015
Hunker										
Delmont No. 10	Upper Freeport	T	5- by 2-inch		2,050	2,130	2,490	6.8	1.8	D23324
Do.	do.	T	2- by 1-1/4-inch		2,080	2,150	2,490	6.7	1.8	D23325
Do.	do.	T	1-1/4- by 1/4-inch		2,100	2,180	2,540	6.9	1.6	D23326
Do.	do.	T	1/4-inch by 0		2,080	2,230	2,500	9.2	1.8	D23327
Do.	do.	T	Run-of-mine		2,090	2,210	2,530	7.7	1.7	E67555
Ella	do.	T	do.		2,100	2,320	2,570	8.7	3.2	D42369
Webco	do.	T	do.		2,100	2,310	2,530	8.2	2.1	D42370
Do.	do.	T	do.		1,940	2,050	2,380	11.8	4.1	D90103
Westmoreland Brick	do.	M		2	1,870	1,960	2,050	8.2	3.8	85338 and 85339
Irwin										
Adams	Pittsburgh	T	Run-of-mine		2,140	2,450	2,730	8.5	2.1	B28819
Do.	do.	T	1-1/4-inch by 0		2,120	2,360	2,740	9.7	2.1	B28820
Jeannette										
Christman Country Bank	Mahoning	M		1	1,890	2,020	2,320	19.3	7.3	81146
Jacobs Country Bank	Harlem	M		1	2,130	2,280	2,390	20.8	1.1	81147
Sandell Country Bank	Upper Freeport	M		1	2,040	2,120	2,150	9.5	2.9	81074
Small Brothers Country Bank	Mahoning	M		1	1,970	2,180	2,340	8.4	2.3	81148
Kingston										
Barnett	Upper Freeport	M		3	2,720	2,890	2,960	8.5	1.0	85406 to 85408
Laughlintown										
Darr Custom Bank	do.	M		1	1,910	2,180	2,290	12.7	2.8	85354
Hall Custom Bank	Lower Kittanning	M		1	1,910	2,180	2,290	8.8	2.5	85355

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Leechburg (Armstrong County)										
Valley	Upper Freeport	T	Run-of-mine		1,940	2,100	2,360	11.9	2.8	D2947
Ligonier										
Hazelburg No. 1	Pittsburgh	T	do.		2,820	2,840	2,920	12.0	1.3	A84107
Do.	do.	T	do.		2,480	2,620	2,780	11.6	1.1	B5778
Ligonier Diamond No. 2	do.	T	do.		2,670	2,730	2,850	11.7	1.0	A42155
St. Clair	do.	T	do.		2,460	2,670	2,760	13.5	1.3	A42119
Do.	do.	T	4- by 2-inch		2,840	2,890	2,930+	12.4	1.0	B5838
Do.	do.	T	2- by 7/8-inch		2,710	2,810	2,910	12.0	1.2	B5839
Do.	do.	T	7/8-inch by 0		2,600	2,660	2,860	9.9	1.3	B5840
Vogele	do.	T	Run-of-mine		2,750	2,840	2,890	10.8	1.2	A64218
Madison										
Betty	Redstone	T	2-inch lump		2,590	2,680	2,850	12.7	1.9	C4103
Do.	do.	T	2-inch by 0		2,420	2,480	2,780	12.6	2.1	C4104
Mammoth										
Mammoth	Pittsburgh	T	Run-of-mine		2,660	2,750	2,910+	9.9	1.5	C427
Manor										
Biddle	do.	T	3/4-inch lump		2,400	2,520	2,650	9.6	2.0	B28122
Do.	do.	T	3/4-inch by 0		2,330	2,460	2,640	10.0	1.7	B28123
Delmont No. 9	do.	T	Run-of-mine		2,500	2,570	2,680	11.7	1.6	D19996
Millwood										
Barnett No. 1	do.	T	2-inch lump		2,060	2,400	2,460	14.5	3.2	A65060
Do.	do.	T	2-inch by 0		2,060	2,450	2,500	13.1	2.8	A65061
Seger No. 1	do.	T	Run-of-mine		2,080	2,460	2,530	13.5	2.4	C83688
Mooween										
Mooween	Upper Freeport	T	1-1/4-inch lump		2,220	2,400	2,650	8.8	1.7	B60624
Do.	do.	T	1-1/4-inch by 0		2,260	2,410	2,610	8.5	1.4	B60625
Mount Pleasant										
Barnhart	Redstone	M		2	2,460	2,600	2,820	14.2	2.4	B99125 and B99126
King	do.	M		2	1,990	2,160	2,190	13.1	2.6	85328 and 85329
Mutual										
Mutual	Pittsburgh	T	Run-of-mine		2,890	2,910+	-	10.4	1.0	B28970
Do.	do.	T	2-inch by 0		2,860	2,910	-	11.2	1.2	B28971
New Alexandria										
William Penn	do.	T	Run-of-mine		2,750	2,810	2,910+	11.6	.8	C29783
Salem	do.	T	do.		2,430	2,580	2,740	10.8	1.8	B24389
Salem No. 2	Upper Freeport	T	do.		2,010	2,260	2,440	15.9	4.0	C82678
New Derry										
Atlantic	Pittsburgh	M		3	2,370	2,520	2,660	11.1	1.9	B96629 to B96631
Atlantic No. 3	do.	T	Run-of-mine		2,660	2,730	2,780	12.2	1.2	C82687
Superior	do.	T	do.		2,630	2,730	2,810	11.9	1.3	B23958
Parnassus										
Valley Camp No. 3	Upper Freeport	M		1	2,130	2,190	2,360	8.2	1.5	80035
Pleasant Unity										
Jamison No. 20	Pittsburgh	T	2-inch lump		-	2,910+	-	11.9	.8	B33757
Do.	do.	T	2- by 3/4-inch		2,830	2,900+	-	11.2	1.0	B33758
Pricedale										
Somers	do.	T	4-inch lump		2,640	2,780	2,880	6.6	.9	B23514
Do.	do.	T	4- by 2-1/2-inch		2,750	2,800	2,910	7.2	1.0	B23551
Do.	do.	T	2-1/2- by 1-1/8-inch		2,600	2,720	2,900	9.0	1.0	B23552
Do.	do.	T	1-1/8-inch by 0		2,360	2,490	2,710	9.9	1.1	B23515
Rillton										
Hutchinson	do.	T	6-inch lump		2,720	2,850	2,910+	8.2	.8	B28656
Do.	do.	T	6- by 4-inch		2,700	2,800	2,910+	6.4	.8	B28657
Do.	do.	T	1/2-inch by 0		2,380	2,500	2,810	8.5	1.0	B28746
Riley	do.	T	4-inch lump		2,750	2,840	2,910+	6.6	.9	B27833
Do.	do.	T	4- by 2-inch		2,750	2,820	2,910+	7.3	.9	B27834
Do.	do.	T	2- by 1-1/4-inch		2,730	2,810	2,910+	8.7	.9	B27835
Do.	do.	T	1-1/4-inch by 0		2,570	2,700	2,860	9.6	1.0	B27836
Salina										
Apollo No. 1	Upper Freeport	M		2	2,020	2,200	2,280	9.8	3.4	85680 and 85681

1 M, mine sample; T, tipple sample. 2 W, washed

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1	2	3	4	5	6	7	8	9	10	11
PENNSYLVANIA (Con.)										
Westmoreland County (Con.)										
Salina										
Apollo No. 2	Lower Kittanning	M		3	2,180	2,360	2,450	8.0	2.7	85676 to 85678
Cochran No. 1	Upper Freeport	T	2-1/2-inch lump		1,950	2,300	2,520	6.2	2.0	B24384
Do.	do.	T	2-1/2-inch by 0		2,170	2,440	2,660	9.4	1.7	B24385
Do.	do.	T	2-inch lump		2,620	2,780	2,890	9.0	.8	D42981
Do.	do.	T	2-inch by 0		2,550	2,600	2,800	10.0	1.1	D42982
Saltsburg (Indiana County)										
Bowman No. 2	do.	M		3	2,070	2,250	2,460	7.6	2.0	B39926 to B39928
Loyal	do.	T	Run-of-mine		2,520	2,570	2,730	13.2	.9	D7528
Do.	do.	T	1-1/4-inch lump		2,180	2,430	2,610	13.5	2.2	E45780
Do.	do.	T	1-1/4- by 3/4-inch		2,450	2,520	2,630	15.4	2.0	E45781
Do.	do.	T	3/4-inch by 0		2,130	2,220	2,480	10.4	2.1	E45782
Seward										
Freedom	Lower Kittanning	T	Run-of-mine		2,160	2,480	2,560	10.7	2.4	A2304
Heuther Fuel	do.	M		1	2,240	2,510	2,590	7.9	2.0	A28669
Valley Smokeless No. 2	Lower Freeport	T	Run-of-mine		2,030	2,380	2,600	9.8	3.3	A71888
Slickville										
Bowman	Upper Freeport	T	do.		2,000	2,180	2,440	12.5	2.7	D5748
Edwards	Pittsburgh	M		2	2,530	2,650	-	8.3	1.2	83657 and 83658
Irwin No. 3	do.	T	Run-of-mine		2,570	2,700	2,840	9.6	1.2	B24321
Irwin No. 4	do.	T	do.		2,580	2,650	2,740	10.5	1.6	B24027
Do.	do.	T	1-1/4-inch lump		2,620	2,700	2,800	12.1	1.5	C62899
Do.	do.	T	1-1/4-inch by 0		2,560	2,620	2,730	14.0	1.4	C62900
Louise No. 1	do.	T	Run-of-mine		2,130	2,440	2,610	10.4	2.5	B23835
Louise No. 2	do.	T	do.		2,630	2,710	2,800	9.2	1.3	B23877
Maust No. 7	do.	T	do.		2,610	2,740	2,910+	9.2	.7	B56480
Frank Rugh	do.	M		2	2,450	2,540	2,630	8.6	1.4	83660 and 83661
Santella No. 1	do.	T	Run-of-mine		2,500	2,650	2,760	10.1	1.4	E39784
Seamor	do.	T	do.		2,520	2,570	2,750	15.6	1.7	D1261
Smithton										
Eureka	do.	T	do.		2,680	2,740	2,880	9.0	1.0	B23428
Liberty	Redstone	M		2	1,980	2,260	2,310	10.2	2.0	85322 and 85323
Southwest										
Stewart	Pittsburgh	T	Run-of-mine		2,730	2,820	2,860	8.9	1.1	A48538
Vandergrift										
Beaver Run	Upper Freeport	T	do.		2,540	2,680	2,730	11.1	1.7	D64241
Hainley & Fitzgerald	do.	M		2	2,130	2,330	2,460	11.2	2.5	A47159 and A47160
Lewis	do.	T	1-1/4-inch lump		1,950	2,300	2,490	10.1	2.2	B24550
Do.	do.	T	1-1/4-inch by 0		1,940	2,260	2,420	11.6	2.4	B24552
Do.	do.	T	Run-of-mine		2,100	2,310	2,590	12.2	1.9	F7059
Painter	do.	T	do.		2,520	2,620	2,680	12.2	1.9	D64240
Pine Run	do.	T	do.		1,920	2,250	2,410	9.8	2.3	B24709
Wilpen										
Ligonier Kelly	Pittsburgh	T	do.		2,570	2,730	2,780	16.8	1.4	C68974
Wilpen	do.	T	do.		2,640	2,730	2,810	12.4	1.5	A42715
Do.	do.	T	3/4-inch lump		2,540	2,710	2,850	14.3	1.5	B24207

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Do.	do.	T	3/4-inch by 0		2,330	2,580	2,730	11.7	1.7	B24209
Wyano										
Osborne	do.	T	5-inch lump		2,720	2,870	2,910+	6.4	.8	B63257
Do.	do.	T	5- by 2-inch		2,740	2,860	2,900+	7.7	.8	B63258
Do.	do.	T	2- by 1-1/4-inch		2,760	2,860	2,910+	9.3	1.0	B63259
Do.	do.	T	1-1/4- by 1/2-inch		2,770	2,880	2,910+	9.9	1.0	B63260
Do.	do.	T	1/2-inch by 0		2,660	2,740	2,820	9.4	1.2	B63261
Yukon										
McKatta	do.	T	Run-of-mine		2,710	2,760	2,910+	9.2	1.3	C4023
SOUTH DAKOTA										
Corson County										
Isabel (Dewey County)										
Keller (Miller)	-	T	do.		1,920	2,140	2,210	9.6	.5	F2824
Dewey County										
Firesteel										
Dewey County	Hell Creek	M		2	2,040	2,220	2,310	9.4	.8	C75361 and C75362
Runkel	do.	T	3-inch lump		2,240	2,270	2,350	9.5	.6	B91449
Do.	do.	T	3- by 1-inch		2,140	2,150	2,210	10.8	.6	B91450
Isabel										
Baker	-	T	Run-of-mine		2,100	2,120	2,170	11.8	.6	F2823
Isabel	Hell Creek	T	2-inch lump		1,990	2,210	2,250	9.5	.6	B91447
Do.	do.	T	2- by 1/2-inch		2,060	2,080	2,100	12.9	.9	B91448
Do.	do.	M		2	1,990	2,080	2,110	12.0	2.2	C75358 and C75359
Schmabel	do.	M		1	2,180	2,210	2,220	9.2	.7	C75356
Harding County										
Buffalo										
Cave Hills	-	M		1	2,010	2,060	2,140	14.2	1.2	C75357
Govert										
Ellis	-	M		1	1,880	2,060	2,110	12.5	3.7	A3557
Ludlow										
Pelham	-	M		1	1,910	1,990	2,020	19.5	1.6	A27339
Ralph										
Giannonetti	-	M		1	1,910	2,150	2,220	21.4	1.3	A27337
Outcrop	-	M		1	2,110	2,130	2,190	14.7	1.4	A27338
Reva										
Bar H	-	M		1	2,060	2,140	2,150	18.1	1.4	A27329
Hodge	-	M		1	1,910	2,180	2,230	15.5	3.4	A27336
Outcrop	-	M		1	1,880	1,960	1,990	21.3	2.9	A27330
Do.	-	M		1	2,010	2,060	2,110	22.5	3.6	A27331
Do.	-	M		1	1,960	2,010	2,060	17.2	1.8	A27333
Do.	-	M		1	1,980	2,010	2,060	18.8	2.7	A27334
Do.	-	M		1	1,960	2,010	2,060	17.7	2.4	A27335
Perkins County										
Lodgepole										
Cornelia	-	M		3	2,060	2,100	2,210	17.2	2.0	C69567 to C69569
Do.	-	T	1-1/2-inch lump		2,070	2,160	2,210	16.2	1.7	E2536
Do.	-	T	1-1/2-inch by 0		2,040	2,090	2,130	20.0	2.6	F2537
TENNESSEE										
Anderson County										
Briceville										
Cameron No. 2	Coal Creek	T	6-inch lump		2,160	2,260	2,680	7.4	2.8	B69419

1/ M, mine sample; T tipple sample 2/ W washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
TENNESSEE (Con.)										
Anderson County (Con.)										
Briceville										
Cameron No. 2	Coal Creek	T	6- by 3-inch		2,100	2,180	2,550	7.5	2.5	B69420
Do.	do.	T	3- by 1-1/4-inch		2,040	2,160	2,540	9.3	2.7	B69421
Do.	do.	T	1-1/4- by 1/4-inch		2,100	2,220	2,550	9.2	2.5	B69422
Do.	do.	T	1/4-inch by 0		2,050	2,220	2,560	9.8	2.8	B69423
Cross Mountain	do.	T	Run-of-mine		2,520	2,620	2,760	10.0	1.4	B68265
Royal	Windrock	T	5-inch lump		2,220	2,330	2,800	5.2	.7	B68260
Do.	do.	T	5- by 2-inch		2,210	2,430	2,890	6.8	.8	B68261
Do.	do.	T	2-inch by 0		2,440	2,620	2,840	9.4	.8	B68262
Do.	do.	T	1- by 1/4-inch		2,330	2,520	2,840	7.0	.7	B68263
Do.	do.	T	1/4-inch by 0		2,370	2,520	2,800	8.1	.8	B68264
Coal Creek										
Black Diamond No. 1	Coal Creek	T	Run-of-mine		2,540	2,680	2,790	9.7	1.2	83384
Devonia										
Moore	Big Mary	M		3	2,150	2,600	2,770	8.0	2.6	88837 to 88839
Do.	do.	T	6-inch lump		2,000	2,120	2,230	9.1	3.1	E15547
Do.	do.	T	6- by 3-inch		1,910	2,070	2,450	9.4	3.2	E15548
Do.	do.	T	1-1/4- by 1/4-inch		1,970	2,150	2,470	11.2	3.5	E15549
Do.	do.	T	1-1/4-inch by 0		2,100	2,320	2,520	14.0	3.1	E15550
Do.	do.	T	Run-of-mine		2,130	2,370	2,560	12.2	3.2	E93840
Rosedale	do.	T	do.		1,970	2,150	2,360	12.9	4.1	D32772
Trimore	do.	M		3	2,080	2,270	2,550	7.8	3.3	D77816 to D77818
Do.	do.	T	3-inch lump		2,070	2,230	2,500	12.5	3.4	E30066
Do.	do.	T	1-1/4- by 1/4-inch		1,840	2,230	2,450	15.4	4.4	E30067
Do.	do.	T	1-1/4-inch by 0		2,030	2,310	2,510	14.5	3.4	E30068
Fork Mountain										
Fork Mountain (Regal)	Pee-Wee	T	8-inch lump		2,340	2,620	2,800	5.2	.7	B74357
Do.	do.	T	8- by 4-inch		2,340	2,620	2,810	5.0	.8	B74358
Do.	do.	T	4-inch by 0		2,540	2,680	2,900	6.9	.8	B74359
Do.	Big Mary	T	Run-of-mine		2,040	2,360	2,500	16.1	3.7	B74360
Fork Mountain No. 3	do.	M		2	2,150	2,450	-	9.4	2.9	88831 and 88832
New River No. 1	Pee-Wee	T	5-inch lump		2,540	2,600	2,850	4.7	.7	D93432
Do.	do.	T	5- by 3-inch		2,630	2,710	2,910+	4.4	.8	D93433
Do.	do.	T	3-inch by 0		2,680	2,740	2,910+	6.8	.9	D93434
Oliver Springs										
Wind Rock No. 1	Windrock	T	Run-of-mine		2,240	2,340	2,490	9.7	.9	81512
Do.	Big Mary	T	do.		2,150	2,230	2,530	8.7	2.9	B69690
Wind Rock No. 2	Pee-Wee	T	5-inch lump		2,230	2,420	2,630	3.8	.8	B69692
Do.	do.	T	5- by 2-1/2-inch		2,340	2,430	2,690	4.5	.8	B69693
Do.	do.	T	2-1/2-inch by 0		2,320	2,570	2,740	8.4	1.1	B69694
Rosedale										
Indian Creek	Big Mary	M		1	2,100	2,200	2,460	11.2	3.0	C26864
Bledsoe County										
Atpontley										
Atpontley	Sewanee	T	1-inch by 0		2,410	2,620	2,890	24.8	1.0	B72800

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Lees										
Lees Gulf No. 1	Nelson	T	Run-of-mine		2,180	2,380	2,570	9.5	1.8	D44007
Pikeville										
King (Fancher)	Sewanee	T	do.		2,610	2,700	2,820	19.6	1.0	E96371
Campbell County										
Anthras										
Anthras	Jellico	M		4	2,480	2,600	2,770	3.9	1.0	B4608 to B4611
Do.	do.	T	Run-of-mine		2,250	2,610	2,900	6.7	1.2	B69416
Block										
Block No. 1	Red Ash	T	6-inch lump		2,270	2,440	2,600	2.2	.9	D42931
Do.	do.	T	6- by 3-inch		2,290	2,500	2,620	3.4	.7	D42932
Do.	do.	T	3- by 1-1/2-inch		2,550	2,620	2,780	4.7	.6	D42933
Do.	do.	T	1-1/2-inch by 0		2,750	2,820	2,890	9.7	.9	D42934
Do.	Big Mary	T	Run-of-mine		2,130	2,470	2,720	12.4	2.7	B68407
Block No. 3	Red Ash	T	3-inch lump		2,340	2,400	2,870	2.7	.9	B68408
Do.	do.	T	3- by 2-inch		2,390	2,590	2,780	4.3	1.0	B68409
Do.	do.	T	2-inch by 0		2,620	2,760	2,910+	9.7	1.1	B68410
Hickey	do.	T	6-inch lump		2,280	2,360	2,450	2.7	1.1	E93199
Do.	do.	T	6- by 3-inch		2,230	2,360	2,570	3.3	1.2	E93200
Do.	do.	T	3- by 2-inch		2,580	2,660	2,800	5.6	1.3	E93201
Do.	do.	T	2-inch by 0		2,750	2,810	2,910+	10.5	1.4	E93202
Buckeye										
Wellsfield	Jellico	M		2	2,480	2,660	-	7.3	.9	88817 and 88818
Carbon Hill										
Pee-Wee	Pee-Wee	T	24- by 5-inch		2,260	2,310	2,440	2.7	.7	D33265
Do.	do.	T	5- by 2-1/2-inch		2,180	2,260	2,570	3.3	.7	D33266
Do.	do.	T	2-1/2- by 1-1/4-inch		2,150	2,260	2,450	5.2	.7	D33267
Do.	do.	T	1- by 1/4-inch		2,210	2,470	2,650	7.4	.7	D33268
Do.	do.	T	1/4-inch by 0		2,230	2,440	2,700	9.0	.9	D33269
Caryville										
Bear Wallow No. 1	-	T	Run-of-mine		2,240	2,530	2,630	7.7	.9	80471
Big Mary	Big Mary	M		1	2,390	2,450	2,530	12.1	2.7	98341
High Point	Red Ash	T	6-inch lump		2,350	2,470	2,620	3.7	1.3	D74385
Do.	do.	T	6- by 2-1/2-inch		2,180	2,390	2,620	5.2	1.2	D74384
Do.	do.	T	2-1/2-inch by 0		2,180	2,700	2,910+	13.1	1.2	D74383
High Point No. 1	Pee-Wee	T	6-inch lump		2,200	2,570	2,770	4.1	.7	B67898
Do.	do.	T	6- by 2-1/2-inch		2,300	2,590	2,770	4.5	.7	B67899
Do.	do.	T	2-1/2-inch by 0		2,500	2,570	2,690	10.4	.7	B67900
High Point No. 2	Red Ash	T	6-inch lump		2,460	2,520	2,880	3.4	1.0	B67892
Do.	do.	T	6- by 2-1/2-inch		2,590	2,700	2,910+	5.5	1.1	B67893
Do.	do.	T	2-1/2-inch by 0		2,630	2,710	2,910+	14.8	1.2	B67894
Sun	Pee-Wee	T	6-inch lump		2,230	2,310	2,570	3.1	.7	B67895
Do.	do.	T	6- by 2-1/2-inch		2,220	2,270	2,590	3.6	.8	B67896
Do.	do.	T	2-1/2-inch by 0		2,490	2,620	2,800	7.9	.8	B67897
Sun Ray	Red Ash	T	6-inch lump		2,520	2,620	2,820	4.1	1.2	D74746
Do.	do.	T	6- by 2-1/2-inch		2,420	2,780	2,890	6.8	1.1	D74745
Do.	do.	T	2-1/2-inch by 0		2,520	2,790	2,910+	14.3	1.1	D74744
Clinchmore										
Clinchmore	Pee-Wee	T	6-inch lump		2,090	2,180	2,240	3.1	.6	E94538
Do.	do.	T	6- by 3-inch		2,130	2,220	2,360	3.1	.7	E94539
Do.	do.	T	3- by 3/8-inch		2,260	2,370	2,590	4.2	.6	E94540
Do.	do.	T	3/8-inch by 0		2,520	2,660	2,760	12.0	.7	E94541
Cotula										
Cotula	Jellico	T	6-inch lump		1,990	2,270	2,420	2.8	1.5	80534
Do.	do.	T	6-inch by 0		2,500	2,620	2,740	8.5	1.3	80533
Wynn	Rich Mountain	T	3-inch lump		2,440	2,530	2,650	2.5	.8	80536
Do.	do.	T	3-inch by 0		2,150	2,740	-	9.1	1.0	80537
Hickey										
Diamond No. 3	Red Ash	T	15- by 5-inch		2,260	2,380	2,650	2.9	1.0	D32701

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
TENNESSEE (Con.)										
Campbell County (Con.)										
Hickey										
Diamond No. 3	Red Ash	T	5- by 2-1/2-inch		2,360	2,540	2,650	4.7	1.1	D32702
Do.	do.	T	2-1/2- by 1-1/2-inch		2,620	2,650	2,800	8.0	1.1	D32703
Do.	do.	T	1-1/2-inch by 0		2,570	2,700	2,840	8.0	1.1	D32704
Jellico										
Saxton No. 1	River Gem	T	5-inch lump		2,080	2,320	2,610	4.7	2.7	D43457
Do.	do.	T	5- by 3-inch		2,180	2,260	2,470	5.4	2.9	D43458
Do.	do.	T	3-inch by 0		2,000	2,130	2,420	8.8	3.7	D43459
La Follette										
Murex	Rax	T	8-inch lump		1,970	2,090	2,270	1.6	1.0	B71641
Do.	do.	T	8- by 5-inch		2,170	2,270	2,490	1.9	.7	B71642
Do.	do.	T	5- by 1-1/4-inch		2,090	2,270	2,470	2.9	1.0	B71643
Do.	do.	T	1-1/4-inch by 0		2,260	2,330	2,550	7.9	1.0	B71644
Rax No. 1	-	T	4-inch lump		1,940	2,120	2,280	3.1	.9	80500
Do.	-	T	4- by 2-1/8-inch		2,000	2,170	2,370	4.8	.9	80502
Do.	-	T	2-1/8-inch by 0		2,120	2,440	2,560	16.2	1.1	80501
Rax No. 2	Rax	T	6-inch lump		2,230	2,350	2,620	2.7	.8	B68047
Do.	do.	T	6- by 3-inch		2,190	2,330	2,520	2.8	.9	B68048
Do.	do.	T	3- by 2-inch		2,150	2,470	2,710	6.9	1.1	B68049
Do.	do.	T	2-inch by 0		2,480	2,670	2,900	13.6	1.0	B68050
Morley										
Blue Rose	Jellico	T	6-inch lump		2,340	2,600	2,670	3.1	.9	D51444
Do.	do.	T	6- by 3-inch		2,180	2,570	2,620	3.7	.9	D51445
Do.	do.	T	3- by 1/4-inch		2,620	2,680	2,730	4.8	.9	D51446
Do.	do.	T	1/4-inch by 0		2,680	2,750	2,840	5.8	.9	D51447
Do.	do.	M		4	2,770	2,910+(1) 2,770 (3)	2,830 (3)	5.1	1.1	D51439 to D51442
Nicks Creek										
Nicks Creek	Joyner	M		2	2,090	2,340	2,450	5.7	4.4	88828 and 88829
Pioneer										
Phillips	Red Ash	T	4-inch by 0		2,590	2,710	2,910+	6.6	.8	E29830
Pioneer Jellico	Big Mary	M		2	2,040	2,510	2,690	13.9	3.3	88834 and 88835
Red Ash										
Indian Mountain	Jellico	M		4	2,150	2,310	2,520	3.1	.9	81236 to 81239
Royal Blue										
Royal Blue	do.	T	5-inch lump		2,130	2,230	2,550	4.3	1.0	D76349
Do.	do.	T	5- by 3-inch		2,030	2,360	2,500	5.0	.8	D76350
Do.	do.	T	1- by 1/4-inch		2,040	2,540	2,650	5.2	.9	D76351
Do.	do.	T	1/4-inch by 0		2,040	2,470	2,620	5.2	1.1	D76352
Titus										
Prospect Hole	Rax	M		1	2,150	2,420	2,520	5.2	1.1	E21420
Turley										
Block No. 2	Big Mary	M		3	1,970	2,180	2,550	10.5	4.0	B4623 to B4625
Do.	do.	T	6-inch lump		2,310	2,590	2,890	7.4	1.9	B69417
Do.	do.	T	6-inch by 0		2,160	2,520	2,860	15.3	2.3	B69418
Vasper										
Anthras	Coal Creek	T	2-1/2-inch lump		2,310	2,470	2,620	4.3	.8	D75431

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Do.	do.	T	2-1/2-inch by 0		2,470	2,620	2,700	6.9	.7	D75432
Vasper	do.	T	15- by 5-inch		2,180	2,230	2,600	4.2	.9	D33041
Do.	do.	T	5- by 2-1/2-inch		2,230	2,360	2,680	12.2	.9	D33042
Do.	do.	T	1- by 1/4-inch		2,360	2,490	2,690	21.5	.8	D33043
Do.	do.	T	1/4-inch by 0		2,360	2,470	2,700	16.3	.7	D33044
Westbourne										
Westbourne	Jellico	T	4-inch lump		2,110	2,170	2,460	4.6	1.3	B41948
Do.	do.	T	4- by 2-inch		2,110	2,470	2,620	3.7	1.1	B41949
Do.	do.	T	2-inch by 0		2,630	2,690	2,840	6.2	1.3	B41950
Claiborne County										
Clairfield										
Arnold	do.	T	Run-of-mine		2,470	2,600	2,750	8.2	1.0	D75000
Do.	-	T	1-1/2- by 3/16-inch		2,130	2,340	2,540	8.1	1.2	E11529
Do.	-	T	3/16-inch by 0		2,200	2,550	2,660	15.1	1.2	E11530
Arnold No. 1	Mason (Lower Bench)	T	1- by 3/16-inch		2,040	2,150	2,470	4.9	.8	E41495
Do.	do.	T	3/16-inch by 0		2,040	2,150	2,460	7.3	.9	E41496
Arnold No. 3	Mason (Bottom Bench)	T	1- by 3/8-inch (W)		2,420	2,510	2,650	3.1	1.1	E53509
Do.	do.	T	3/8-inch by 0 (W)		2,520	2,680	2,770	7.1	1.0	E53510
Buffalo Mountain	Jellico	M		2	1,980	2,340	2,520	7.3	1.4	88844 and 88845
Dippel and Dippel	do.	T	Run-of-mine		2,420	2,590	2,630	5.6	1.1	D42371
Dippel	Mason	T	3- by 1-1/4-inch		2,070	2,300	2,530	2.9	1.3	E95423
Do.	do.	T	1-1/4- by 1/4-inch		2,080	2,310	2,500	2.5	1.3	E95424
Do.	do.	T	1-1/4-inch by 0		2,020	2,250	2,520	4.6	1.4	E95425
King Mountain	Jellico	T	6-inch lump		1,970	2,290	2,580	2.7	.9	B41707
Do.	do.	T	6- by 3-inch		1,950	2,190	2,620	2.9	1.1	B41708
Do.	do.	T	3- by 2-1/2-inch		1,950	2,220	2,630	3.7	1.0	B41709
Do.	do.	T	2-1/2-inch by 0		2,100	2,330	2,530	6.8	1.3	B41710
King Mountain No. 2	do.	T	6-inch lump		2,080	2,100	2,420	3.8	.7	D42631
Do.	do.	T	6- by 3-inch		2,030	2,080	2,420	3.0	.7	D42632
Do.	do.	T	3-inch by 0		2,110	2,430	2,570	9.8	1.1	D42633
Royal	do.	T	6-inch lump		1,970	2,120	2,640	2.7	1.1	B41704
Do.	do.	T	6- by 2-1/2-inch		2,040	2,190	2,650	2.8	.9	B41705
Do.	do.	T	2-1/2-inch by 0		2,120	2,270	2,540	6.3	.9	B41706
Eagen										
Dippel and Dippel No. 2	Log Mountain	T	1-1/4- by 1/4-inch		2,390	2,650	2,800	9.4	1.5	D75795
Do.	do.	T	1/4-inch by 0		2,490	2,690	2,890	14.3	1.4	D75796
Eagen	Jellico	T	6-inch lump		2,460	2,590	2,810	2.7	.7	B41943
Do.	do.	T	6- by 2-1/2-inch		2,290	2,490	2,840	2.8	.9	B41944
Do.	do.	T	2-1/2-inch by 0		2,100	2,460	2,630	5.2	1.1	B41945
Do.	do.	T	1- by 1/4-inch		2,050	2,460	2,640	4.2	1.0	B41946
Do.	do.	T	1/4-inch by 0		2,140	2,480	2,640	7.0	1.2	B41947
Buffalo	do.	M		1	2,310	2,570	2,740	4.3	1.1	92004
Fork Ridge										
Fork Ridge	Mason	T	6-inch lump		2,480	2,650	2,910+	2.8	.9	B41626
Do.	do.	T	6- by 2-1/2-inch		2,260	2,470	2,680	3.5	1.2	B41627
Do.	do.	T	3- by 2-inch		2,150	2,450	2,620	5.2	1.3	B41628
Do.	do.	T	2-1/2-inch by 0		2,310	2,500	2,680	12.8	1.6	B41629
Do.	do.	T	1-1/2-inch by 0		2,410	2,550	2,770	12.1	1.5	B41630
Hartranft										
Rennebaum	Sterling	T	7-inch lump		2,650	2,760	2,910+	6.5	.8	B41465
Do.	do.	T	7- by 4-inch		2,750	2,810	2,910+	8.7	1.0	B41466
Do.	do.	T	4- by 2-1/2-inch		2,790	2,880	2,910+	10.1	.8	B41467
Do.	do.	T	2-1/2- by 1-1/4-inch		2,810	2,880	2,910+	11.4	.9	B41468
Do.	do.	T	1-1/4- by 1/8-inch		2,670	2,750	2,910	10.9	1.1	B41469
Do.	do.	T	2-1/2-inch by 0		2,670	2,730	2,890	10.6	.9	B41470
Do.	do.	T	1/8-inch by 0		2,590	2,670	2,830	10.8	1.1	B41471
Marion										
Marion	Jellico	T	6-inch lump		1,970	2,110	2,530	5.1	.8	D84390
Do.	do.	T	6- by 3-inch		1,990	2,130	2,530	3.7	.7	D84391

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
TENNESSEE (Con.)										
Claiborne County (Con.)										
Marion										
Marion	Jellico	T	1- by 1/4-inch (W)		2,080	2,310	2,550	5.0	.9	D84392
Do.	do.	T	1/4-inch by 0		2,020	2,470	2,660	11.1	1.2	D84393
Do.	do.	T	1-1/2-inch by 0		2,210	2,570	2,710	10.8	1.1	D84394
Middlesboro, Kentucky										
Hartranft No. 1	Lignite	T	Run-of-mine		2,520	2,620	2,760	7.6	.7	E11531
Rannebaum No. 1	Sterling	T	6-inch lump		2,780	2,830	2,910+	7.3	.8	D42187
Do.	do.	T	6-inch by 0		2,840	2,910	2,910+	9.7	.9	D42188
Motch										
Motch	-	T	2-inch lump		2,010	2,150	2,540	2.4	1.3	B41492
Do.	-	T	2-inch by 0		2,100	2,410	2,660	5.1	1.3	B41493
Cumberland County										
Crab-Orchard										
Haley Mountain	Sewanee	M		1	1,990	2,460	2,680	14.4	.8	B44476
Hutson	-	M		1	1,960	2,340	2,570	5.0	1.1	B44477
Grassy Cove										
Jim Lee	-	M		1	2,050	2,460	2,670	9.6	1.1	B44478
Fentress County										
Wilder										
Wilder No. 3	Bon Air No. 2	M		3	2,030	2,280	2,450	8.5	2.8	A58607 to A58609
Zenith										
Zenith	do.	T	5-inch lump		2,420	2,440	2,630	3.9	.7	B67771
Do.	do.	T	5-inch by 0		2,420	2,480	2,640	7.2	.6	B67772
Grundy County										
Coalmont										
Commando	Sewanee	T	Run-of-mine		2,680	2,770	2,880	12.8	.8	E96680
Werner	do.	T	do.		2,670	2,740	2,870	8.5	.8	D84397
Palmer										
Palmer	do.	M		6	2,150	2,350	2,540	10.7	1.9	80064 to 80069
Do.	do.	M		2	2,410	2,570	2,780	9.4	.6	B44854 and B44855
Do.	do.	T	7-inch lump		2,700	2,740	2,880	8.4	.5	F503
Do.	do.	T	7- by 3-inch		2,690	2,730	2,860	8.7	.5	F504
Do.	do.	T	3- by 1-1/4-inch		2,690	2,730	2,910	8.9	.6	F505
Do.	do.	T	1-1/4- by 3/8-inch		2,550	2,680	2,870	9.9	.7	F506
Do.	do.	T	3/8-inch by 0		2,260	2,430	2,650	11.5	.8	F507
Hamilton County										
Falling Water										
Jack Manning	No. 7	M		1	2,040	2,270	2,730	8.7	3.0	B44235
Montlake										
Chickamauga	do.	M		1	2,450	2,600	2,750	11.6	1.0	B44237
Do.	do.	T	Run-of-mine		2,260	2,460	2,760	16.6	1.3	B71069

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Do.	No. 10	M		1	2,030	2,280	2,490	13.6	3.1	B44236
Do.	do.	T	Run-of-mine		2,070	2,250	2,530	15.3	2.9	B71068
Sale Creek										
Goodson	No. 12	M		1	2,020	2,340	2,650	12.1	3.9	B44234
Signal Mountain										
Parker	No. 10	M		1	1,920	2,300	2,480	14.0	3.7	B44131
Soddy										
Alexander	No. 5	M		1	2,070	2,200	2,690	5.5	1.3	B44241
Do.	do.	T	Run-of-mine		2,060	2,270	2,590	9.7	2.4	B70752
Cox	No. 12	T	do.		2,070	2,260	2,590	13.5	5.9	B70753
5-Bos	No. 10	M		1	2,230	2,490	2,650	9.0	1.3	B44137
Flat Top	-	M		1	2,750	2,870	2,910+	15.1	1.5	B44083
Flat Top No. 1	No. 8	T	2-inch lump		2,100	2,450	2,580	12.5	2.5	B74633
Do.	do.	T	2-inch by 0		2,440	2,560	2,770	17.0	2.7	B74634
Do.	do.	T	Run-of-mine		2,130	2,480	2,730	15.6	2.8	B74635
Ledford	No. 12	M		1	1,980	2,210	2,660	9.2	4.0	B44081
Do.	do.	T	Run-of-mine		2,000	2,180	2,490	13.6	6.4	B70665
Mary Glen	do.	M		1	1,940	2,410	2,600	8.1	2.1	B44082
Do.	do.	T	6-inch lump		2,100	2,340	2,620	7.9	3.1	B70666
Do.	do.	T	6-inch by 0		2,100	2,340	2,530	15.1	4.1	B70667
Millsaps	No. 10	M		1	1,940	2,290	2,510	10.3	2.4	B44133
Old Soddy	No. 7	M		1	2,210	2,440	2,630	8.3	1.1	B44132
Old Staub	do.	M		1	2,700	2,780	2,910+	11.3	1.1	B44134
Patterson Brothers	do.	M		1	2,440	2,510	2,600	8.9	1.7	B44136
Marion County										
Jasper										
Shadrick	Sewanee	M		1	1,840	2,340	2,520	10.2	2.4	B43154
Thomas	do.	M		1	2,090	2,400	2,540	12.7	2.6	B43153
Monteagle (Grundy County)										
Arthor Long	do.	M		1	2,280	2,460	2,610	6.2	1.2	B43735
Orme										
Battle Creek No. 12	Battle Creek	T	4-inch lump		2,190	2,270	2,630	8.1	2.8	B72501
Do.	do.	T	4- by 2-inch		2,100	2,230	2,650	10.2	3.2	B72502
Do.	do.	T	2-inch by 0		2,400	2,540	2,780	18.0	2.4	B72503
Orme	do.	M		2	2,320	2,540	2,690	13.0	2.1	B43674 and B43675
Roberts Point										
Raulston	do.	M		1	2,590	2,710	2,770	24.3	3.4	B43734
Sewanee (Franklin County)										
Dunwoody	do.	M		2	1,800	2,110	2,330	8.8	4.9	B43736 and B43737
Signal Mountain (Hamilton Co.)										
Haley Branch	Red Ash	M		1	1,930	2,170	2,370	22.3	3.8	B44080
South Pittsburg										
Cook	Battle Creek	M		1	2,000	2,210	2,650	12.0	3.2	B43676
Rector	-	M		1	2,000	2,210	2,540	7.4	.9	B43347
Do.	Battle Creek	M		1	1,860	2,210	2,610	10.3	3.4	B43348
Tracy City (Grundy County)										
Werner	Sewanee	M		2	1,940	2,250	2,450	9.9	2.5	B43151 and B43152
Waldens Ridge (Hamilton Co.)										
McNabb	Etna	M		1	2,410	2,480	2,650	2.4	.4	B43898
Montague & Wheeler	-	M		1	2,490	2,600	2,720	15.1	1.3	B43733
Whiteside										
Kelley	Kelley	M		1	2,280	2,530	2,620	5.2	1.3	B44078
D. S. Long	Etna	M		1	2,020	2,080	2,400	6.9	2.5	B43094
Scratch Ankle	Mill Creek	M		1	2,720	2,790	2,870	10.7	1.6	B43897
Testa Brothers No. 1	Kelley	T	Run-of-mine		2,200	2,450	2,560	5.9	1.4	E45188
Whitwell										
C. E. Brown	Sewanee	M		1	2,770	2,880	2,910+	9.0	.7	B43478
Goforth No. 1	do.	T	Run-of-mine		2,670	2,800	2,910+	9.8	.7	B72504
Goforth No. 3	do.	T	do.		2,430	2,550	2,780	10.3	.7	E96556

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
TENNESSEE (Con.)										
Marion County (Con.)										
Whitwell										
Hutson & Son	Sewanee	M		1	1,840	2,220	2,390	11.5	2.8	B43350
Levan	do.	M		1	2,680	2,750	2,910+	8.8	.9	B43479
Peacock	do.	M		1	1,950	2,290	2,440	11.0	2.0	B43349
Reel's Cove	do.	T	2-1/2-inch lump		2,490	2,660	2,870	8.7	.6	D84395
Do.	do.	T	2-1/2-inch by 0		2,570	2,650	2,850	10.0	.6	D84396
Rounsavill No. 3	do.	T	Run-of-mine		2,530	2,730	2,910+	8.6	.6	B72508
Slatton	do.	M		1	2,740	2,770	2,910+	7.9	.8	B43480
Smith No. 3	do.	T	Run-of-mine		2,100	2,420	2,620	15.3	2.1	E29831
Star Gap	do.	T	do.		2,600	2,710	2,910+	10.4	.9	D77571
Whitwell	do.	M		3	2,650	2,910+(1) 2,740 (2)	2,910+(1) 2,870 (1)	8.4	.6	B43552 to B43554
Do.	do.	T	6-inch lump		2,640	2,760	2,870	8.1	.6	B72497
Do.	do.	T	6- by 3-inch		2,640	2,770	2,910	8.6	.6	B72498
Do.	do.	T	3- by 1-1/2-inch		2,510	2,690	2,870	10.4	.8	B72499
Do.	do.	T	1-1/2-inch by 0		2,620	2,730	2,870	8.6	.7	B72500
Morgan County										
Blue Gem										
Denny	Hooper	M		1	2,060	2,340	2,630	3.4	2.1	88806
Jones Brothers	do.	M		1	2,060	2,390	2,510	3.6	1.5	88807
Webster Alcock	do.	M		1	1,880	2,620	2,680	6.5	1.3	88811
Coalfield										
Fisher	Coal Creek	T	Run-of-mine		2,010	2,150	2,480	10.6	4.5	B69691
Wright	do.	T	do.		2,190	2,470	2,610	13.5	3.6	D93435
Khotan (Anderson County)										
Khotan	Poplar Creek	M		1	2,570	2,680	-	4.8	1.1	88808
Lancing										
Mahan-Ellison No. 2	-	T	5-inch lump		2,620	2,780	2,910+	3.8	.8	D75001
Do.	-	T	5- by 3-inch		2,680	2,800	2,910+	4.4	.8	D75002
Do.	-	T	3- by 2-inch		2,740	2,840	2,910+	5.6	.7	D75003
Do.	-	T	2-inch by 0		2,730	2,910+	-	10.6	.8	D75004
Oliver Springs (Roane County)										
Joyner	Joyner	M		3	2,140	2,300	2,510	3.3	1.4	98337 to 98339
Petros										
Big Brushy	Jellico	M		1	1,970	2,210	2,340	8.6	3.3	82388
Do.	do.	M		4	2,030	2,250	2,560	6.1	2.8	82638 to 82641
Winslow										
Stowers	Hooper	M		1	1,970	2,340	2,450	3.6	.7	88810
Overton County										
Crawford										
A & B	Bon Air No. 2	T	4-inch lump		2,050	2,330	2,530	8.8	2.7	B67764
Do.	do.	T	4- by 2-inch		1,990	2,220	2,480	10.8	3.2	B67765
Do.	do.	T	2-inch by 0		2,010	2,420	2,580	15.9	3.5	B67766
Blue Gem	do.	T	5-inch lump		2,160	2,530	2,650	8.1	2.3	B67767

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Do.	do.	T	5- by 3-inch		2,050	2,310	2,450	10.5	3.3	B67768
Do.	do.	T	3- by 2-inch		2,010	2,310	2,450	12.3	3.2	B67769
Do.	do.	T	2-inch by 0		2,010	2,330	2,520	13.0	3.0	B67770
Putnam County										
Monterey										
A. B. C.	do.	T	5-inch lump		2,050	2,100	2,520	9.5	3.1	D44391
Do.	do.	T	5-inch by 0		2,020	2,090	2,520	13.4	4.1	D44392
Fentress No. 7	do.	T	5-inch lump		2,000	2,130	2,450	9.1	2.6	E41880
Do.	do.	T	5-inch by 0		1,910	2,190	2,380	13.2	4.0	E41881
Meadow Creek	do.	T	5-inch lump		1,940	2,150	2,430	8.8	3.4	E97078
Do.	do.	T	5-inch by 0		1,960	2,130	2,460	13.9	4.4	E97079
Meadow Creek No. 3	do.	T	5-inch lump		2,020	2,090	2,290	9.2	3.7	D44388
Do.	do.	T	5- by 2-inch		2,030	2,080	2,330	12.1	4.8	D44389
Do.	do.	T	2-inch by 0		2,000	2,100	2,420	14.0	4.5	D44390
Rhea County										
Dayton										
Cumberland	Nelson	T	3-inch lump		2,310	2,530	2,850	6.7	.8	B70661
Do.	do.	T	3- by 1-1/2-inch		2,500	2,600	2,840	8.3	.7	B70662
Do.	do.	T	1-1/2- by 1/2-inch		2,720	2,800	2,910	13.2	.7	B70663
Do.	do.	T	1/2-inch by 0		2,760	2,870	2,910+	17.9	.8	B70664
North Pole	Richland	M		1	2,260	2,370	2,680	11.2	.6	B44231
Stuart	Nelson	M		1	2,810	2,910+	-	11.8	.5	B44474
Tennessee River Coal Co.	do.	M		2	2,570	2,710	2,860	6.5	.6	B44232 and B44233
Waterfall	Sewanee	T	Run-of-mine		2,210	2,430	2,630	15.6	1.2	B70751
Graysville										
Small & Mansfield	Richland	M		1	2,560	2,710	2,850	15.8	.9	B44240
Pikeville (Bledsoe County)										
Porch Rock	Nelson	M		1	2,580	2,710	2,880	11.1	1.7	B44614
Roane County										
Rockwood										
Rockwood	Sewanee	M		2	2,420	2,600	2,730	20.0	.6	A16671 and A16672
Do.	do.	M		1	2,490	2,660	2,870	12.4	.8	B44475
Scott County										
Dean										
Straight Fork	Dean	T	6-inch lump		1,970	2,420	2,620	8.3	3.2	D74743
Do.	do.	T	6- by 2-1/2-inch		2,000	2,180	2,360	14.8	4.7	D74742
Do.	do.	T	2-1/2-inch by 0		1,870	2,440	2,520	16.0	4.3	D74741
Helenwood										
Buffalo Creek	Coal Creek	M		2	1,990	2,370	2,570	7.9	3.6	88820 and 88821
Keene & Strunk	do.	M		2	1,960	2,480	2,570	5.9	2.4	88824 and 88825
New River										
Doctor Frazier	Glen Mary	M		1	2,010	2,080	2,420	6.8	2.3	C16787
Oneida										
Fogal	Coal Creek	M		3	2,380	2,640	2,720	4.1	.7	82649 to 82651
Noah Dobbs	Paint Rock No. 3	T	2-1/2-inch lump		2,600	2,730	2,890	5.5	1.0	B67500
Do.	do.	T	2-1/2-inch by 0		2,420	2,620	2,780	10.6	1.4	B67501
Tunnel Hill Coal Company	Coal Creek	M		1	2,000	2,450	-	6.9	2.3	88827
Roach Creek										
Roach Creek Coal Company	Big Mary	M		1	2,090	2,450	2,630	7.5	2.8	88812
Robbins										
Brimstone	Glen Mary	T	5-inch lump		2,300	2,500	2,730	3.6	.7	B67496
Do.	do.	T	5- by 3-inch		2,520	2,650	2,800	5.4	.7	B67497
Do.	do.	T	3- by 2-inch		2,520	2,670	2,830	6.1	.8	B67498
Do.	do.	T	2-inch by 0		2,500	2,680	2,840	6.5	.9	B67499
Glen Mary	do.	T	12- by 5-inch		1,970	2,030	2,340	5.4	2.0	D32705

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
TENNESSEE (Con.)										
Scott County (Con.)										
Robbins										
Glen Mary	Glen Mary	T	5- by 3-inch		1,950	2,020	2,390	4.7	2.1	D32706
Do.	do.	T	1- by 1/4-inch		2,000	2,100	2,420	7.6	2.7	D32707
Do.	do.	T	1/4-inch by 0		2,050	2,130	2,360	9.5	2.8	D32708
G & R Coal Company	do.	T	Run-of-mine		2,420	2,580	2,800	4.7	.8	D93929
Do.	do.	T	2-inch by 0		2,420	2,620	2,720	5.6	1.0	D93930
Hall Lumber & Coal Company No. 2	Coal Creek	M		1	1,990	2,510	2,570	5.2	.8	88823
Kline	do.	T	Run-of-mine		2,350	2,530	2,800	4.5	.9	E94386
Lassie No. 1	Glen Mary	T	5-inch lump		2,340	2,440	2,660	3.1	.7	E94860
Do.	do.	T	5- by 4-inch		2,190	2,460	2,600	3.9	.8	E94861
Do.	do.	T	4- by 2-inch		2,130	2,300	2,530	6.4	.9	E94862
Do.	do.	T	2- by 1-inch		2,210	2,490	2,620	6.7	.9	E94863
Do.	do.	T	1-inch by 0		2,500	2,610	2,700	7.1	.9	E94864
Mill Creek	Coal Creek	T	Run-of-mine		2,200	2,480	2,700	15.8	2.3	D43461
Robbins	do.	T	do.		2,780	2,840	2,890	6.2	.6	D43460
Round Mountain	-	T	do.		2,360	2,620	2,710	6.6	.8	D75698
Tennessee Blue Gem	Coal Creek	M		2	2,290	2,570	2,630	3.7	.9	88841 and 88842
Smokey										
Lindsay	Jellico	M		3	2,210	2,550	2,670	4.8	1.8	88813 to 88815
Winfield										
Winfield	do.	T	5-inch lump		2,160	2,260	2,620	5.1	1.9	B67887
Do.	do.	T	5- by 2-inch		2,040	2,290	2,590	8.7	2.6	B67888
Do.	do.	T	2- by 1-inch		2,020	2,290	2,560	10.0	2.9	B67889
Do.	do.	T	1- by 1/8-inch		2,040	2,340	2,570	11.0	2.8	B67890
Do.	do.	T	1/8-inch by 0		2,040	2,340	2,570	12.1	2.8	B67891
Sequatchie County										
Cannon Creek (Bledsoe County)										
Pikeville Coal Company	Block	M		1	2,160	2,430	2,570	9.8	1.8	B44849
Do.	do.	M		1	2,270	2,590	2,780	7.7	.8	B44853
Cartwright										
Cartwright	Sewanee	M		1	2,570	2,650	2,840	9.4	.7	B44847
Do.	do.	T	Run-of-mine		2,430	2,620	2,860	12.2	.9	B72506
Dans										
Herron & McDonaugh	do.	T	do.		2,570	2,670	2,800	10.7	.7	E40925
Whitco	do.	T	do.		2,040	2,210	2,440	12.0	2.8	B72507
Dunlap										
Colton	do.	M		1	1,970	2,230	2,470	11.7	2.0	C89705
Dunlap	-	M		1	2,020	2,330	2,490	9.3	1.8	B44850
Robertson Fork	Sewanee	T	2-inch lump		2,240	2,360	2,730	8.9	.8	B71236
Do.	do.	T	2- by 1-inch		2,010	2,360	2,550	12.8	1.2	B71237
Do.	do.	T	1-inch by 0		2,020	2,330	2,550	12.7	1.3	B71238
Robinson	-	M		1	2,570	2,740	2,890	9.4	.9	B44852
Sullivan	Sewanee	M		1	1,930	2,240	2,430	12.6	2.7	B44848
Whit	do.	M		1	1,920	2,190	2,420	10.9	2.4	B44846

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Signal Mountain (Hamilton Co.)										
Market Street	do.	T	2-inch lump		2,310	2,440	2,740	8.9	.8	B71239
Do.	do.	T	2- by 1-inch		2,250	2,440	2,740	12.0	1.1	B71240
Do.	do.	T	1-inch by 0		2,230	2,380	2,590	11.7	1.0	B71241
Patton No. 1	do.	T	2-inch lump		2,040	2,230	2,490	11.8	2.9	B71166
Do.	do.	T	2- by 1/2-inch		2,020	2,310	2,470	14.1	2.6	B71167
Do.	do.	T	1/2-inch by 0		2,030	2,400	2,550	15.2	2.6	B71168
Patton No. 2	do.	T	2-inch by 0		1,950	2,260	2,410	14.3	3.4	B71170
Sequatchie	do.	M		1	2,330	2,520	2,760	8.2	1.1	B44851
Sequatchie No. 1	do.	T	4-inch lump		2,600	2,740	2,910+	7.9	.7	B71071
Do.	do.	T	4- by 2-inch		2,570	2,670	2,850	10.1	1.0	B71072
Do.	do.	T	2- by 3/8-inch		2,600	2,690	2,840	12.3	1.2	B71073
Do.	do.	T	3/8-inch by 0		2,570	2,660	2,830	15.5	1.4	B71074
Sequatchie No. 2	do.	T	Run-of-mine		2,210	2,530	2,830	18.5	3.0	B71070
Whitwell (Marion County)										
Daus Mountain	do.	T	do.		2,130	2,520	2,650	12.7	1.8	E96372
Van Buren County										
Dunlap (Sequatchie County)										
Rocky River	do.	M		1	2,100	2,210	2,500	11.9	1.9	C89706
Spencer										
Glade Creek No. 2	do.	T	Run-of-mine		2,360	2,510	2,790	12.8	.8	B74855
TEXAS										
Henderson County										
Malakoff										
Malakoff	-	M		1	2,130	2,210	2,310	12.9	1.2	D67310
Malakoff No. 2	-	M		3	2,390	2,430	2,530	14.7	1.0	A58026 to A58028
Malakoff No. 3	-	M		3	2,160	2,220	2,340	12.9	1.0	A58029 to A58031
Palo Pinto County										
Strawn										
Strawn No. 4	-	T	2-inch lump		2,080	2,150	2,360	12.5	2.9	B60708
Do.	-	T	2- by 1-inch		2,140	2,410	2,580	20.7	2.7	B60709
Webb County										
Dolores										
Dolores No. 3	San Pedro	M		2	1,850	1,940	1,990	12.6	2.8	84739 and 84740
Do.	Santo Tomas	M		2	1,860	2,040	2,160	15.2	3.2	84741 and 84742
Laredo										
Cannel	-	T	Run-of-mine		2,680	2,790	2,860	14.9	1.5	B60710
Wise County										
Bridgeport										
Byrns & Byrns	-	M		3	2,120	2,160	2,240	17.1	2.1	B57800 to B57802
Singleton	-	M		2	1,920	2,030	2,260	16.2	3.1	B57797 and B57798
Young County										
New Castle										
Deep Vein	-	M		3	1,930	1,950	2,130	18.5	4.3	B95485 to B95487

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH										
Carbon County										
Cameron										
Cameron No. 1	-	M		1	2,130	2,200	2,280	5.2	.4	80194
Cameron No. 2	-	M		2	2,130	2,200	2,280	6.4	.5	80195 and 80196
Castle Gate										
Castle Gate No. 1	Castlegate "A"	M		1	2,100	2,220	2,330	6.0	.5	80165
Do.	Castlegate "C"	M		1	1,910	2,060	2,220	4.8	.5	80166
Do.	Castlegate "D"	M		3	2,180	2,200	2,320	6.6	.5	80167 to 80169
Castle Gate No. 2	do.	M		4	2,140	2,190	2,220	6.1	.4	80171 to 80174
Do.	Castlegate "C"	M		1	2,130	2,180	2,200	4.7	.6	80175
Do.	Castlegate "E"	M		1	2,060	2,130	2,430	4.5	.6	80176
Do.	Castlegate "D"	M		9	2,140	2,190	2,300	6.4	.4	C53477 to C53485
Do.	do.	T	8-inch lump		2,240	2,270	2,310	7.0	.2	E13721
Do.	do.	T	8- by 3-inch		2,210	2,240	2,260	7.6	.2	E13722
Do.	do.	T	3- by 1-5/8-inch (W)		2,160	2,220	2,240	7.1	.2	E13723
Do.	do.	T	1-5/8-inch by 0 (W)		2,140	2,240	2,270	6.3	.2	E13724
Willow Creek	-	M		1	2,040	2,210	2,280	6.6	1.1	A23380
Clear Creek										
Clear Creek	Castlegate "A"	T	1-5/8- by 1-inch (W)		2,650	2,760	2,860	6.2	.5	D83049
Do.	do.	T	1- by 3/16-inch (W)		2,600	2,710	2,860	5.9	.7	D83050
Do.	do.	T	3/16-inch by 0 (W)		2,490	2,650	2,810	6.2	.5	D83051
Clear Creek No. 3	do.	M		4	2,460	2,520	2,910+(1) 2,600 (3)	5.9	.6	C53366 to C53369
Do.	do.	T	10-inch lump		2,260	2,400	2,650	4.8	.5	C53406
Do.	do.	T	10- by 3-inch		2,520	2,660	2,840	6.9	.4	C53407
Do.	do.	T	3- by 1-5/8-inch		2,760	2,840	2,910+	10.3	.5	C53408
Do.	do.	T	3-inch by 0		2,550	2,660	2,760	10.1	.6	C53409
Do.	do.	T	1-5/8-inch by 0		2,540	2,620	2,740	8.8	.5	C53410
Clear Creek No. 4	-	M		1	1,960	2,150	2,680	4.4	.5	80860
Columbia										
Columbia	Lower Sunnyside	T	Run-of-mine		2,360	2,680	2,830	6.2	1.0	B67569
Do.	do.	M		1	2,550	2,670	2,840	7.0	1.3	C2835
Consumers										
McGowan No. 3	No. 3	M		3	2,000	2,070	2,250	5.2	.5	B47520 to B47522
Heiner										
Panther	Castlegate "B"	M		4	2,100	2,170	2,220	5.9	.5	80260 to 80263
Helper										
Blame	Castlegate No. 1	T	3-1/2-inch lump		2,250	2,360	2,510	5.4	.7	B67009
Do.	do.	T	3-1/2- by 1-1/8-inch		2,320	2,490	2,630	6.4	.7	B67010
Do.	do.	T	1-1/8-inch by 0		2,580	2,690	2,780	7.3	.7	B67011
Carbon Fuel	Castlegate "B"	T	Run-of-mine		2,230	2,280	2,330	6.1	.4	E87951
Carbon Fuel No. 1	Castlegate Sub 2	T	3-inch lump		2,270	2,370	2,470	6.4	.7	E43072
Do.	do.	T	3-inch by 0		2,150	2,310	2,530	6.6	1.0	E43073
Hardscrabble	Castlegate No. 2 1/2	T	6-inch lump		2,110	2,300	2,450	6.0	.8	B66699
Do.	do.	T	6- by 1-3/8-inch		2,100	2,360	2,580	6.5	.7	B66700
Do.	do.	T	1-3/8-inch by 0		2,140	2,230	2,420	4.8	.7	B66701
Hiawatha										
King	Hiawatha	T	14- by 10-inch		1,930	2,030	2,390	5.5	.6	E56919

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Do.	do.	T	10- by 5-inch		2,060	2,150	2,470	5.8	.6	E56920
Do.	do.	T	5- by 3-inch		1,930	2,090	2,400	6.1	.7	E56921
Do.	do.	T	3- by 1-5/8-inch		2,030	2,090	2,430	6.2	.6	E56922
Do.	do.	T	1-5/8- by 1-inch		2,000	2,040	2,390	6.3	.6	E56923
Do.	do.	T	1- by 3/16-inch		2,010	2,070	2,340	6.5	.7	E56924
Do.	do.	T	3/16-inch by 0		2,000	2,040	2,340	5.7	.7	E56925
King No. 1	-	M		4	2,210	2,280	2,360	6.6	.7	A11660 to A11663
Do.	Hiawatha	M		3	2,490	2,540	2,690	6.6	.6	C56387 to C56389
Kenilworth										
Kenilworth	Kenilworth	M		9	2,130	2,160	2,270	5.1	.4	C42492 to C42500
Do.	"D"	T	10-inch lump		2,140	2,210	2,250	5.8	.2	E13725
Do.	do.	T	10- by 4-inch		2,120	2,150	2,180	6.1	.4	E13726
Do.	do.	T	1-5/8-inch by 0		2,130	2,170	2,250	5.9	.3	E13728
Latuda										
Liberty	Sub No. 3	M		3	2,080	2,150	2,200	6.2	1.0	83104 to 83106
Do.	do.	T	10- by 3-inch		2,080	2,130	2,420	4.8	1.0	D62658
Do.	do.	T	3- by 1-5/8-inch		2,100	2,150	2,420	5.9	1.1	D62659
Do.	do.	T	1-5/8-inch by 0		2,100	2,150	2,230	6.4	1.0	D62660
Lynn (Box Elder County)										
New Peerless	Castlegate "D"	M		5	2,170	2,210	2,260	5.8	.4	A66632 to A66636
Do.	Castlegate "A"	M		5	2,140	2,210	2,270	6.8	.3	A66638 to A66642
Martin										
Helper	Sub No. 1	M		1	2,230	2,400	2,480	6.8	.8	83299
Do.	Castlegate No. 1	M		1	2,080	2,130	2,190	6.9	.6	83300
Mutual										
Lamph & Johansen	Castlegate "A"	T	1-5/8-inch lump		2,120	2,180	2,310	6.3	.6	C55929
Do.	do.	T	1-5/8-inch by 0		2,230	2,280	2,550	6.4	.5	C55930
Mutual	Sub No. 2	M		5	2,140	2,220	2,450	7.9	.6	B9530 to B9534
Do.	do.	T	8-inch lump		2,130	2,180	2,440	7.1	.5	B9562
Do.	do.	T	8- by 3-inch		2,130	2,210	2,450	6.7	.5	B9563
Do.	do.	T	3-inch lump		2,130	2,230	2,440	7.1	.5	B9564
Do.	do.	T	1-5/8- by 1-inch		2,130	2,220	2,390	6.8	.6	B9565
Do.	do.	T	1-inch by 0		2,130	2,180	2,440	7.0	.6	B9566
Vulcan	Castlegate Sub No. 3	T	1-5/8-inch lump		2,000	2,040	2,220	6.2	1.5	C48299
Do.	do.	T	1-5/8-inch by 0		2,050	2,090	2,400	7.7	1.4	C48300
Do.	Castlegate Sub No. 1	T	3-inch lump		1,940	2,010	2,210	6.7	1.7	E56030
Do.	do.	T	3-inch by 0		2,000	2,040	2,260	7.4	1.6	E56031
Western	do.	T	5-inch lump		2,020	2,080	2,260	7.2	1.4	E52921
Do.	do.	T	5- by 3-inch		2,010	2,090	2,390	7.6	1.3	E52922
Do.	do.	T	1- by 3/16-inch		2,060	2,140	2,490	10.3	1.3	E52923
Do.	do.	T	3/16-inch by 0		2,100	2,140	2,380	10.2	1.0	E52924
National										
McGowan	Castlegate "A"	T	4-inch lump		2,080	2,140	2,340	6.0	.4	C54326
Do.	do.	T	4- by 1-5/8-inch		2,100	2,250	2,520	7.2	.4	C54327
Do.	do.	T	1-5/8-inch by 0		2,130	2,240	2,570	8.9	.4	C54328
National	No. 1	M		5	2,510	2,600	2,690	6.5	.7	A57485 to A57489
Do.	Hiawatha	T	3-inch lump		2,380	2,500	2,700	4.3	.5	C54443
Do.	do.	T	3- by 1-5/8-inch		2,680	2,760	2,870	6.9	.5	C54444
Do.	do.	T	1-5/8- by 1-inch		2,450	2,570	2,700	5.8	.6	C54445
Do.	do.	T	3/16-inch by 0		2,150	2,210	2,470	5.9	.6	C54447
Sweet	Castlegate "D"	T	8-inch lump		2,220	2,340	2,690	4.0	.6	B69504
Do.	do.	T	8- by 3-inch		2,240	2,370	2,740	4.0	.6	B69505
Do.	do.	T	3- by 1-5/8-inch		2,720	2,800	2,910+	6.8	.5	B69506
Do.	do.	T	1-5/8- by 1-3/8-inch		2,780	2,910+	-	8.1	.6	B69507
Do.	do.	T	1-3/8-inch by 0		2,440	2,570	2,860	7.4	.6	B69508
Peerless										
Peerless	Castlegate No. 1	M		2	2,170	2,200	2,250	5.8	.4	82558 and 82559
Do.	Castlegate No. 2	M		2	2,140	2,230	2,320	5.3	.6	82560 and 82561
Do.	Sub 2	T	10-inch lump		2,370	2,570	2,640	7.1	.6	D65047
Do.	do.	T	10- by 3-inch		2,380	2,500	2,780	6.7	.6	D65048
Do.	do.	T	3- by 1-5/8-inch		2,370	2,500	2,780	6.7	.7	D65049

1/ M, mine sample; T, tipple sample 2/ W, washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH										
Carbon County (Con.)										
Peerless										
Peerless	Sub 2	T	3/16-inch by 0		2,210	2,370	2,620	5.5	.8	D65051
Do.	Sub 3	T	3-inch lump		2,380	2,470	2,730	5.8	.7	C56267
Do.	do.	T	3- by 1-5/8-inch		2,420	2,540	2,730	7.3	.7	C56268
Do.	do.	T	1-5/8-inch by 0		2,260	2,410	2,620	6.4	.9	C56269
Price										
Arronco	Castlegate "D"	T	3-inch lump		2,170	2,190	2,310	5.0	.5	C53489
Do.	do.	T	3- by 1-5/8-inch		2,170	2,200	2,450	5.6	.4	C53490
Do.	do.	T	1-5/8-inch by 0		2,170	2,190	2,360	6.0	.5	C53491
Blue Flame	Aberdeen	T	1-5/8-inch lump		2,180	2,260	2,650	7.5	.6	C50280
Do.	do.	T	1-5/8-inch by 0		2,230	2,320	2,720	8.1	.7	C50281
Chidester No. 2	Gillen	T	1-3/8-inch lump		2,360	2,520	2,750	5.4	.5	B66214
Do.	do.	T	1-3/8-inch by 0		2,460	2,530	2,780	9.7	.6	B66215
Olson	-	M		1	2,190	2,300	2,640	5.4	.6	A23376
Rio Grande	Gilson	T	Run-of-mine		2,650	2,700	2,880	10.2	.6	E43074
Star Point	Castlegate "A" (Upper)	T	10- by 4-inch		2,110	2,160	2,210	5.3	.8	E89884
Do.	do.	T	4- by 1-inch		2,140	2,180	2,260	6.9	.8	E89885
Do.	do.	T	1/8-inch by 0		2,070	2,130	2,420	3.7	.7	E89887
Zion Security No. 1	Gillen	T	1-3/8-inch lump		2,140	2,210	2,520	5.3	.5	C54643
Do.	do.	T	1-3/8-inch by 0		2,360	2,470	2,730	6.7	.5	C54644
Rains										
Bills & Kilgore	Castlegate Sub 2	T	1-5/8-inch lump		2,190	2,270	2,490	8.4	.6	B67573
Do.	do.	T	1-5/8-inch by 0		2,170	2,280	2,520	9.7	.6	B67574
Carbon Fuel	Castlegate No. 1	M		5	2,160	2,230	2,260	5.8	.5	82924 to 82928
Day	Castlegate Sub 1	T	3-inch lump		1,980	2,040	2,130	6.5	1.6	E55682
Do.	do.	T	3-inch by 0		1,970	2,010	2,140	7.7	1.7	E55683
Duncan	Castlegate Sub 2	T	1-5/8-inch lump		2,110	2,180	2,310	6.9	.6	B67330
Do.	do.	T	1-5/8-inch by 0		2,240	2,320	2,530	9.0	.8	B67331
Harvey	Castlegate "A"	T	3-inch lump		2,100	2,240	2,510	7.0	.5	B66646
Do.	do.	T	3- by 1-5/8-inch		2,140	2,190	2,440	7.1	.5	B66647
Do.	do.	T	1-5/8-inch by 0		2,070	2,160	2,230	6.2	.5	B66648
Lone Pine	Castlegate Sub 3	T	1-5/8-inch lump		1,990	2,030	2,270	6.4	1.3	B66825
Do.	do.	T	1-5/8-inch by 0		1,990	2,020	2,340	7.9	1.2	B66826
MacLean	-	T	3-inch lump		2,210	2,310	2,700	6.2	.7	B69563
Do.	-	T	3- by 1-5/8-inch		2,250	2,370	2,800	8.5	.7	B69564
Do.	-	T	1-5/8-inch by 0		2,340	2,470	2,910+	16.1	.7	B69565
McClane	Sub Seam No. 1	M		1	2,060	2,110	2,230	5.9	.9	82922
Morton	Sub 2	M		2	2,190	2,270	2,320	8.4	.7	82979 and 82980
Rains No. 2	do.	M		4	2,110	2,180	2,390	5.8	.6	B16313 to B16316
Do.	do.	T	10- by 3-inch		2,140	2,260	2,420	7.1	.6	D63094
Do.	do.	T	3- by 1-5/8-inch		2,130	2,260	2,420	7.9	.6	D63095
Do.	do.	T	1-5/8- by 3/16-inch		2,070	2,210	2,380	9.5	.6	D63096
Do.	do.	T	3/16-inch by 0		2,190	2,240	2,410	8.1	.6	D63097
Rains No. 3	Castlegate "A"	T	4-inch lump		2,120	2,190	2,280	7.3	.4	E92131
Do.	do.	T	4- by 1-5/8-inch		2,090	2,240	2,470	7.9	.4	E92132
Do.	do.	T	1-5/8-inch by 0		2,100	2,200	2,370	7.8	.4	E92134

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Uta No. 2	Castlegate Sub 2	T	8-inch lump		2,110	2,210	2,460	6.1	.4	B66641
Do.	do.	T	8- by 3-inch		2,110	2,220	2,470	5.7	.4	B66642
Do.	do.	T	3- by 1-5/8-inch		2,110	2,230	2,470	5.6	.6	B66643
Do.	do.	T	1-5/8- by 1-inch		2,130	2,230	2,470	5.8	.4	B66644
Do.	do.	T	1-inch by 0		2,140	2,230	2,500	5.6	.6	B66645
Royal										
Royal	No. 2	T	8-inch lump		2,160	2,230	2,340	6.9	.3	B67776
Do.	do.	T	8- by 3-inch		2,190	2,260	2,380	7.8	.4	B67777
Do.	do.	T	3- by 1-5/8-inch		2,190	2,250	2,380	8.6	.4	B67778
Do.	do.	T	1-5/8-inch by 0		2,160	2,230	2,360	7.1	.4	B67779
Royal No. 2	Castlegate No. 2	T	10-inch lump		2,300	2,320	2,350	8.0	.2	C52980
Do.	do.	T	10- by 4-1/2-inch		2,250	2,290	2,320	7.3	.3	C52981
Do.	do.	T	4-1/2- by 1-5/8-inch		2,270	2,310	2,330	7.0	.3	C52982
Do.	do.	T	1-5/8- by 1-inch		2,270	2,300	2,340	7.1	.3	C52983
Do.	do.	T	1-inch by 0		2,210	2,220	2,230	6.7	.4	C52984
Scofield										
Eccles Canyon	-	T	3-inch lump		2,270	2,450	2,630	6.2	.6	B66097
Do.	-	T	3- by 1-5/8-inch		2,370	2,470	2,710	6.8	.7	B66098
Do.	-	T	1-5/8-inch by 0		2,270	2,430	2,670	10.1	.6	B66099
McAlpine	-	T	Run-of-mine		2,220	2,620	2,780	5.3	.5	E89444
Money	Castlegate "A"	T	do.		2,080	2,260	2,490	4.8	.8	E92480
Spring Canyon										
Spring Canyon	No. 2 1/2	T	8-inch lump		1,990	2,090	2,290	6.2	1.3	C52847
Do.	do.	T	8- by 3-inch		2,050	2,080	2,280	6.3	1.1	C52848
Do.	do.	T	3- by 1-5/8-inch		2,080	2,190	2,330	8.9	1.1	C52849
Do.	do.	T	1-5/8- by 1-inch		2,130	2,200	2,420	8.5	1.0	C52850
Do.	do.	T	1-inch by 0		2,130	2,170	2,470	8.3	.9	C52851
Do.	Castlegate "B"	T	10-inch lump		2,230	2,240	2,310	6.1	.4	E43552
Do.	do.	T	10- by 6-inch		2,200	2,230	2,250	6.0	.3	E43553
Do.	do.	T	6- by 3-inch		2,250	2,300	2,330	6.8	.3	E43554
Do.	do.	T	3- by 1-5/8-inch		2,160	2,260	2,310	6.2	.5	E43555
Do.	do.	T	1-5/8- by 1-inch		2,240	2,300	2,330	6.1	.4	E43556
Do.	do.	T	3/16-inch by 0		2,210	2,250	2,310	5.1	.4	E43558
Standardville										
Standard	Castlegate No. 1	M		4	2,090	2,140	2,180	5.5	.5	82791 to 82794
Do.	Castlegate Sub 2	T	3-inch lump		2,180	2,290	2,500	5.7	.6	B66879
Do.	do.	T	3- by 1-5/8-inch		2,170	2,270	2,470	5.8	.7	B66880
Do.	do.	T	1-5/8- by 1-inch		2,190	2,270	2,510	5.9	.7	B66881
Do.	do.	T	1-inch by 0		2,190	2,270	2,510	5.5	.8	B66882
Do.	No. 2 1/2	T	10-inch lump		2,210	2,240	2,270	6.1	.8	C53949
Do.	do.	T	10- by 3-inch		2,020	2,080	2,150	7.0	.8	C53950
Do.	do.	T	3- by 1-5/8-inch		2,100	2,180	2,400	8.1	.7	C53951
Do.	do.	T	1-5/8- by 1-inch		2,080	2,170	2,400	8.0	.7	C53952
Do.	do.	T	1-inch by 0		2,020	2,100	2,260	7.3	.7	C53953
Storrs										
Spring Canyon No. 1	-	M		5	2,160	2,210	2,320	8.8	.6	A11654 to A11658
Spring Canyon No. 3	-	M		4	2,120	2,180	2,220	6.2	.5	82336 to 82339
Sunnyside										
Kaiser	Lower Sunnyside	M		1	2,310	2,360	2,640	5.3	1.2	C2836
Kaiser No. 2	do.	M		1	2,890	2,910+	-	7.1	.9	C11380
Sunnyside No. 1	-	M		6	2,130	2,320	2,440	7.0	1.2	81970 and 81971 81973 to 81976
Do.	Lower Sunnyside	M		1	2,530	2,690	2,840	5.2	1.0	C2833
Do.	do.	T	Run-of-mine		2,760	2,910+	-	6.2	1.2	B68095
Do.	do.	T	6- by 3-inch		2,840	2,880	2,910+	5.0	1.3	B68096
Do.	do.	T	3- by 1-inch		2,840	2,880	2,910+	5.7	1.2	B68097
Do.	do.	T	1- by 3/16-inch		2,880	2,910+	-	7.1	1.2	B68098
Do.	do.	T	3/16-inch by 0		2,570	2,720	2,840	7.1	1.5	B68099
Sunnyside No. 2	do.	M		5	2,470	2,910+(1) 2,490 (4)	- 2,640 (4)	7.7	1.4	D45747 to D45751

1/ M mine sample; T tipple sample 2/ A washed

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH (Con.)										
Carbon County (Con.)										
Sunnyside										
Sunnyside No. 3	Lower Sunnyside	M		2	2,530	2,640	2,450 (1)	7.1	1.2	81983 and 81984
Sunnyside No. 4	do.	M		5	2,790 (4)	2,910+(3) 2,790 (2)	- 2,860 (2)	5.6	.6	A99987 to A99991
Wattis										
Lion Coal Company	-	M		4	2,330	2,520	2,700	4.8	.9	83259 to 83262
Wattis	Wattis No. 2	T	10-inch lump		2,180	2,370	2,800	4.2	.8	B69169
Do.	do.	T	10- by 3-inch		2,360	2,490	2,810	4.6	.7	B69170
Do.	do.	T	3- by 1-5/8-inch		2,380	2,540	2,910	4.9	.8	B69171
Do.	do.	T	1-5/8- by 1-inch		2,360	2,620	2,910+	5.7	.9	B69172
Do.	do.	T	1-inch by 0		2,120	2,300	2,760	6.6	1.1	B69173
Wattis No. 1	-	M		2	2,320	2,360	2,450	6.0	.8	A11667 and A11668
Do.	Upper Hiawatha	T	Run-of-mine		2,490	2,570	2,720	5.9	.9	C57760
Wellington										
Coal Creek (Royal Blaze)	Aberdeen	T	12-inch lump		2,080	2,150	2,420	9.9	.5	D62427
Do.	do.	T	12- by 3-inch		2,360	2,570	2,680	7.5	.5	D62428
Do.	do.	T	3- by 1-5/8-inch		2,570	2,780	2,890	11.3	.5	D62429
Do.	do.	T	1-5/8-inch by 0		2,470	2,680	2,840	9.4	.5	D62430
Dugout No. 2	-	T	Run-of-mine		2,340	2,430	2,540	7.8	.8	E43365
Dugout Canyon	-	T	3-inch lump		2,130	2,180	2,420	4.8	.5	B67570
Do.	-	T	3- by 3/8-inch		2,190	2,250	2,470	5.7	.5	B67571
Do.	-	T	3/8-inch by 0		2,150	2,220	2,440	6.2	.6	B67572
Knight Ideal	Gilson	T	10-inch lump		2,280	2,460	2,600	6.7	.5	E42706
Do.	do.	T	10- by 4-inch		2,370	2,420	2,720	7.3	.6	E42707
Do.	do.	T	4- by 1-5/8-inch		2,340	2,470	2,670	8.3	.6	E42708
Do.	do.	T	1-5/8- by 3/16-inch		2,390	2,490	2,630	8.8	.6	E42709
Do.	do.	T	3/16-inch by 0		2,170	2,310	2,570	8.6	.6	E42710
Rock Canyon	Rock Canyon	T	Run-of-mine		2,460	2,600	2,820	6.9	1.4	E14216
Do.	do.	T	do.		2,070	2,180	2,350	7.7	1.9	E20422
Soldier Canyon	do.	M		1	2,260	2,360	2,550	6.6	.6	D40211
Do.	do.	T	Run-of-mine		2,390	2,440	2,700	8.1	.4	E13729
Do.	do.	T	12- by 4-inch		2,230	2,370	2,590	4.8	.5	E88134
Do.	do.	T	4- by 1-5/8-inch		2,460	2,570	2,810	9.8	.5	E88135
Do.	do.	T	1-5/8- by 1-inch		2,510	2,630	2,910	10.1	.5	E88136
Do.	do.	T	1-inch by 0		2,430	2,500	2,730	8.3	.6	E88137
West Hiawatha										
Hiawatha No. 1	Hiawatha	M		4	2,250	2,410	2,910+(1) 2,510 (3)	7.7	.8	80811 to 80814
Hiawatha No. 2	do.	M		4	2,280	2,420	- 2,490 (3)	7.7	.7	80889 to 80892
Duchesne County										
Fruitland										
J. M. Michelson	Fraughton	M		1	2,070	2,170	2,350	6.5	.8	B15021
Emery County										
Clear Creek (Carbon County)										
New York	-	M		2	2,050	2,110	2,170	5.5	1.2	83338 and 83339

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Dragerton (Carbon County)										
Books Cliffs	Lower Sunnyside	M		1	2,130	2,180	2,420	6.1	.8	D45746
Do.	Sunnyside No. 2	T	8- by 3-inch		2,390	2,500	2,600	8.6	.9	D61859
Do.	do.	T	3- by 1-5/8-inch		2,680	2,780	2,890	9.3	.9	D61860
Do.	do.	T	1-5/8-inch by 0		2,570	2,620	2,840	9.1	.8	D61861
Do.	do.	T	4- by 1-5/8-inch		2,420	2,480	2,510	6.5	.6	E16036
Do.	do.	T	1-5/8-inch by 0		2,350	2,400	2,460	7.5	.8	E16037
Utah Blue Diamond	Lower Sunnyside	T	2-inch lump		2,580	2,660	2,730	11.4	.8	C49306
Do.	do.	T	2-inch by 0		2,450	2,520	2,790	9.9	.7	C49307
Emery										
Browning	Ferron "J"	T	4-inch lump		2,030	2,100	2,170	6.7	.8	E92476
Do.	do.	T	4- by 1-1/4-inch		2,090	2,140	2,260	8.2	.8	E92477
Do.	do.	T	2-1/2- by 1-1/4-inch		2,090	2,150	2,360	7.1	.5	E92478
Do.	do.	T	3/16-inch by 0		2,120	2,160	2,230	7.2	.5	E92479
Comfort	Hiawatha	T	3-inch lump		2,250	2,360	2,620	6.2	.5	C58177
Do.	do.	T	3- by 1-5/8-inch		2,710	2,770	2,910	9.6	.4	C58178
Do.	do.	T	1-5/8-inch by 0		2,460	2,490	2,530	8.7	.5	C58179
Ricci	-	M		1	2,130	2,260	2,650	8.7	.6	C50436
Do.	Muddy No. 1	T	3-inch lump		2,310	2,420	2,770	7.9	.5	C58181
Do.	do.	T	3- by 1-5/8-inch		2,230	2,400	2,610	9.3	.4	C58182
Do.	do.	T	1-5/8-inch by 0		2,230	2,260	2,550	12.6	.4	C58183
Sun Valley	Ferron "A"	T	Run-of-mine		2,070	2,140	2,310	7.8	1.8	E15687
Do.	do.	T	1-1/2- by 1-1/4-inch		2,220	2,330	2,550	7.7	.6	E91784
Do.	do.	T	1-1/4- by 1/4-inch		2,230	2,330	2,550	8.6	.6	E91785
Do.	do.	T	1/4-inch by 0		2,290	2,380	2,500	11.9	.7	E91786
Fairview (Sanpete County)										
Arrowhead	-	T	1-5/8-inch lump		2,110	2,270	2,570	5.0	.6	B66377
Do.	-	T	1-5/8-inch by 0		2,090	2,170	2,440	8.4	.7	B66378
Christensen No. 3	Castlegate "A"	T	1-5/8-inch lump		2,090	2,160	2,410	3.9	.5	B66329
Do.	do.	T	1-5/8- by 1-inch		2,120	2,210	2,480	5.2	.5	B66330
Do.	do.	T	1-inch by 0		2,090	2,140	2,340	5.5	.5	B66331
Larsen	Castlegate	M		2	2,090	2,170	2,220	4.9	.7	81863 and 81864
Larsen & Rigby	Castlegate No. 1	T	3-inch lump		2,050	2,110	2,240	5.1	.7	E89221
Do.	do.	T	3-inch by 0		2,150	2,200	2,290	5.5	.7	E89222
Ferron										
Slide Hollow	-	M		1	2,050	2,240	2,340	5.6	.5	86405
Hiawatha (Carbon County)										
Blackhawk	-	M		4	1,960	2,110	2,280	7.2	.9	80712 to 80715
King No. 2	Hiawatha	M		2	2,140	2,170	2,390	6.2	.8	C56391 and C56392
Huntington										
Adams Black Diamond	do.	T	3-inch lump		1,930	2,000	2,090	4.4	.4	E91647
Do.	do.	T	1- by 3/16-inch		2,170	2,220	2,460	7.3	.4	E91648
Do.	do.	T	3/16-inch by 0		2,100	2,140	2,260	7.5	.6	E91649
American Fuel	Blind Canyon	T	14- by 5-inch		1,830	2,000	2,380	5.3	.5	E57565
Do.	do.	T	5- by 3-inch		2,000	2,060	2,460	7.0	.4	E57566
Do.	do.	T	1-5/8- by 1-inch		2,050	2,130	2,520	7.7	.4	E57567
Do.	do.	T	1- by 1/4-inch		2,090	2,180	2,260	7.5	.5	E57568
Do.	do.	T	1/4-inch by 14-mesh		2,120	2,210	2,520	7.3	.5	E57569
Do.	do.	T	14-mesh by 0		2,000	2,050	2,310	7.5	.6	E57570
Bear Canyon	Hiawatha	T	4-inch lump		2,000	2,040	2,320	4.1	.6	E14837
Do.	do.	T	4- by 1-5/8-inch		2,010	2,050	2,180	4.7	.4	E14838
Do.	do.	T	1-5/8-inch by 0		2,030	2,130	2,180	5.2	.5	E14839
Do.	do.	T	3/16-inch by 0		2,240	2,320	2,350	6.4	.7	E14840
Black Magic	do.	T	Run-of-mine		2,430	2,470	2,680	7.9	.6	E15083
Do.	do.	T	4-inch lump		2,450	2,470	2,580	8.3	.5	E91085
Do.	do.	T	4- by 1-5/8-inch		2,440	2,480	2,620	8.0	.5	E91086
Do.	do.	T	1-5/8-inch by 0		2,370	2,420	2,580	8.1	.5	E91087
Co-Op	do.	T	18- by 6-inch		1,980	2,050	2,310	5.6	.5	E91373
Do.	do.	T	1- by 3/16-inch		2,040	2,130	2,310	7.2	.9	E91374
Do.	do.	T	3/16-inch by 0		2,030	2,100	2,200	6.9	.5	E91375
Days Mutual No. 2	-	M		1	2,120	2,160	2,550	2.6	.6	C56394

1/ M, mine sample; T, tipple sample 2/ W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH (Con.)										
Emery County										
Huntington										
Deer Creek	Blind Canyon	M		2	2,000	2,050	2,090	5.7	.7	83749 and 83750
Do.	do.	T	3-inch lump		1,940	2,030	2,200	6.5	.6	E44126
Do.	do.	T	3- by 1-5/8-inch		2,050	2,120	2,500	7.9	.5	E44127
Do.	do.	T	1-5/8- by 1-inch		2,060	2,110	2,310	7.6	.5	E44128
Do.	do.	T	1- by 1/4-inch		2,070	2,140	2,370	7.8	.6	E44129
Do.	do.	T	1/4-inch by 0		2,070	2,130	2,370	8.2	.4	E44130
Deer Creek Coal Company	-	T	3-inch lump		2,380	2,450	2,630	7.4	.6	B66189
Do.	-	T	3- by 1-5/8-inch		2,620	2,720	2,840	9.4	.6	B66190
Do.	-	T	1-5/8-inch by 0		2,300	2,620	2,690	13.1	.7	B66191
Helco	Blind Canyon	T	4-inch lump		2,230	2,460	2,710	3.1	.6	D64725
Do.	do.	T	4- by 1-1/4-inch		2,080	2,470	2,620	3.3	.6	D64726
Do.	do.	T	1-1/4-inch by 0		2,310	2,380	2,590	5.0	.6	D64727
Johnson	-	T	2-inch lump		2,100	2,150	2,720	5.3	.4	B69167
Do.	-	T	2-inch by 0		2,130	2,250	2,790	10.1	.4	B69168
Lemmaster	Blind Canyon	M		1	1,940	2,000	2,130	5.1	.6	D44518
Do.	do.	T	4-inch lump		1,930	2,000	2,100	4.5	.5	E57767
Do.	do.	T	1- by 1/4-inch		1,920	2,000	2,240	5.1	.7	E57768
Do.	do.	T	1/4-inch by 0		1,990	2,060	2,140	6.6	.8	E57769
Meeting House	Hiawatha	T	1-5/8-inch lump		2,340	2,400	2,510	6.0	.6	B66522
Do.	do.	T	1-5/8- by 1-inch		2,330	2,520	2,800	10.4	.6	B66523
Do.	do.	T	1-inch by 0		2,370	2,440	2,660	13.1	.6	B66524
Paramount	Blind Canyon	T	8-inch lump		2,230	2,470	2,520	5.5	.6	D62431
Do.	do.	T	8-inch by 0		2,450	2,510	2,550	7.9	.5	D62432
Rilda Canyon	-	T	3-inch lump		2,470	2,520	2,750	7.3	.5	B66290
Do.	-	T	3- by 1-5/8-inch		2,500	2,660	2,750	8.0	.5	B66291
Do.	-	T	1-5/8-inch by 0		2,320	2,370	2,660	8.5	.5	B66292
Sea Gull	Blind Canyon	T	4-inch lump		2,000	2,110	2,440	7.6	.6	E57563
Do.	do.	T	1-5/8-inch by 0		2,120	2,250	2,520	10.5	.6	E57564
Stump Flat	Hiawatha	T	3-inch lump		2,090	2,130	2,310	6.6	.9	E45758
Do.	do.	T	3- by 1-1/2-inch		2,190	2,360	2,510	7.3	.9	E45759
Do.	do.	T	1-1/2- by 1/4-inch		2,190	2,370	2,510	8.0	.9	E45760
Do.	do.	T	1/4-inch by 0		2,090	2,130	2,270	8.7	1.3	E45761
Sunshine	-	T	2-1/2-inch lump		2,320	2,430	2,650	6.1	.8	B66883
Do.	-	T	2-1/2- by 1-inch		2,460	2,590	2,790	8.9	.7	B66884
Do.	-	T	1-inch by 0		2,310	2,430	2,530	12.1	.8	B66885
Tip Top	Hiawatha	T	1-1/4-inch lump		2,340	2,430	2,630	7.3	.4	E89223
Do.	do.	T	1-1/4-inch by 0		2,140	2,240	2,440	7.2	.4	E89224
Manti (Sanpete County)										
Dog Valley	Ferron "A"	M		3	2,130	2,250	2,510	6.8	1.2	C57178 to C57180
Morhland										
Morhland	Hiawatha	M		4	2,140	2,270	2,360	6.9	.9	81009 to 81012
Orangeville										
Anderson	do.	M		1	2,200	2,340	2,390	9.3	.6	86246
Bell	-	M		1	2,150	2,260	2,600	7.5	.7	C57197
Black Diamond	Hiawatha	T	1-5/8-inch lump		2,040	2,100	2,480	6.6	.6	C49814
Do.	do.	T	1-5/8- by 1/16-inch		2,160	2,260	2,640	9.8	.7	C49815

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Do.	do.	T	1/16-inch by 0		2,110	2,200	2,570	10.2	.7	C49816
Castle Valley	do.	T	1-5/8-inch lump		2,340	2,370	2,620	6.8	.6	C49503
Do.	do.	T	1-5/8-inch by 0		2,460	2,480	2,620	8.4	.8	C49504
Deseret	do.	T	15- by 5-inch		2,230	2,430	2,660	7.2	.7	E58079
Do.	do.	T	1- by 3/16-inch		2,470	2,620	2,810	11.4	.7	E58080
Do.	do.	T	3/16-inch by 0		2,370	2,440	2,740	11.6	.8	E58081
Oliphant	do.	T	1-5/8-inch lump		2,100	2,260	2,650	7.6	.6	C49812
Do.	do.	T	1-5/8-inch by 0		2,260	2,410	2,710	14.1	.7	C49813
Rock Canyon No. 1	do.	M		1	2,060	2,240	2,340	6.7	.8	86404
Rock Canyon No. 2	do.	M		1	2,060	2,510	2,570	5.6	.7	86403
Trail Mountain	do.	T	Run-of-mine		2,000	2,060	2,190	6.2	.5	E15200
Do.	do.	T	1-5/8-inch lump		1,970	2,050	2,330	5.5	.7	E89562
Do.	do.	T	1-5/8-inch by 0		2,430	2,490	2,600	8.6	.6	E89563
Trail Mountain No. 2	do.	T	1-5/8-inch lump		2,400	2,450	2,580	6.1	.6	E89564
Do.	do.	T	1-5/8-inch by 0		2,330	2,390	2,460	6.7	.6	E89565
Wilberg	do.	T	Run-of-mine		2,350	2,400	2,490	9.3	.6	E15441
Do.	do.	T	14- by 4-inch		1,950	2,050	2,400	7.0	.4	E58213
Do.	do.	T	4- by 1-5/8-inch		2,450	2,480	2,700	9.3	.6	E58214
Do.	do.	T	1-5/8- by 1-inch		2,440	2,480	2,750	9.9	.6	E58215
Do.	do.	T	1- by 3/16-inch		2,420	2,450	2,730	9.8	.7	E58216
Do.	do.	T	3/16-inch by 0		2,360	2,420	2,610	10.6	.9	E58217
Wilberg Prospect	do.	T	Run-of-mine		1,940	2,250	2,620	8.2	.5	E91646
Sunnyside (Carbon County)										
Geneva	Lower Sunnyside	M		4	2,410	2,450	2,670	6.1	.8	C2834, C2889, C5746 and C11382
Garfield County										
Escalante										
Alvey	-	T	2-inch lump		2,110	2,200	2,340	7.9	.6	E99966
Do.	-	T	2-inch by 0		2,000	2,050	2,130	8.6	1.5	E99967
Shurtz	Upper	M		1	2,090	2,130	2,180	4.8	.9	81079
Hanksville (Wayne County)										
Sweetwater	Emery	M		1	2,150	2,190	2,470	8.0	.5	D65834
Tropic										
Tropic	-	T	1-5/8-inch lump		2,160	2,200	2,420	12.5	.7	E99304
Do.	-	T	1-5/8- by 1/4-inch		2,140	2,210	2,290	12.1	1.0	E99305
Do.	-	T	1/4-inch by 0		2,170	2,220	2,300	11.0	.9	E99306
Grand County										
Greenriver (Emery County)										
Sego	-	M		1	2,470	2,570	2,710	13.9	1.1	A15503
Moab										
Crescent	Crescent	M		1	2,390	2,600	2,800	13.6	.8	A23634
Do.	No. 3	T	1-5/8-inch lump		2,550	2,680	2,780	16.9	.7	C52562
Do.	do.	T	1-5/8-inch by 0		2,570	2,700	2,840	23.1	.7	C52563
Nelsen										
Adams	-	M		1	2,260	2,580	2,800	13.6	.7	A23382
Sego										
American Fuel	Sego No. 3	M		1	2,390	2,510	2,630	10.0	.8	83341
Do.	Sego No. 2	M		1	2,800	2,910	2,960	16.1	.7	83342
American Fuel No. 1	No. 3	M		3	2,260	2,360	2,520	9.3	.7	A8135 to A8137
American Fuel No. 3	No. 1	M		1	2,100	2,370	2,640	9.4	.8	A8134
Chesterfield	-	T	Run-of-mine		2,380	2,420	2,680	8.9	.6	B66567
Chesterfield No. 1	No. 1	M		2	2,490	2,780+(1) 2,330 (1)	- 2,670 (1)	10.2	.7	A30625 and A30626
Neslen No. 1	-	M		3	2,550	2,660	- 2,690 (2)	11.1	.7	81824 to 81826
Sego No. 1	No. 1	T	8-inch lump		2,680	2,760	2,860	9.5	.7	C54107
Do.	do.	T	8-inch by 0		2,410	2,520	2,780	10.0	.7	C54108
Utah Grand	do.	T	3-inch lump		2,730	2,840	2,910	8.5	.6	D64427

1 M, mine sample; T, tipple sample. 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH (Con.)										
Grand County (Con.)										
Sego										
Utah Grand	No. 1	T	3-inch by 0		2,730	2,890	2,910	14.5	.7	D64428
Iron County										
Cedar City										
Brayton	-	M		3	2,000	2,060	2,250	12.7	7.0	A20190 to A20192
Graff	-	M		1	2,040	2,150	2,320	5.3	6.3	B24200
Jones & Bullock	-	M		1	2,030	2,120	2,140	8.6	6.0	81080
Do.	-	T	1-5/8-inch lump		2,140	2,220	2,450	13.1	5.7	D65258
Do.	-	T	1-5/8-inch by 0		2,140	2,150	2,420	12.7	5.7	D65259
Kleam Coal	-	M		3	2,100	2,210	2,420	6.6	6.7	B53039 to B53041
Do.	-	T	3-inch lump		2,120	2,260	2,450	6.6	6.7	B68727
Do.	-	T	3- by 2-inch		2,130	2,250	2,490	7.5	6.7	B68728
Do.	-	T	2- by 1/4-inch		2,110	2,230	2,530	8.8	6.9	B68729
Do.	-	T	1/4-inch by 0		2,070	2,230	2,630	11.1	6.9	B68730
Koal Kreek	-	T	1-1/4-inch lump		2,230	2,330	2,410	20.4	5.5	F508
Do.	-	T	1-1/4-inch by 0		1,960	2,130	2,190	12.9	6.3	F509
MacFarlane	-	T	1-5/8-inch lump		2,090	2,110	2,150	14.5	5.2	C51950
Do.	-	T	1-5/8-inch by 0		2,080	2,120	2,520	13.5	6.0	C51949
Right Hand Canyon	-	T	1-5/8-inch lump		2,050	2,090	2,260	12.7	6.8	C51470
Do.	-	T	1-5/8-inch by 0		2,120	2,150	2,240	15.5	6.5	C51471
Tucker	-	T	3-inch lump		2,090	2,130	2,260	13.3	6.7	C51468
Do.	-	T	3-inch by 0		2,080	2,130	2,260	18.2	6.5	C51469
Do.	-	T	Run-of-mine		2,100	2,190	2,340	20.8	6.6	F510
Webster	-	T	do.		2,050	2,140	2,400	16.5	6.6	E99968
Kanarraville										
Williams	-	M		1	2,090	2,160	2,410	6.8	6.5	B53043
Do.	-	T	2-inch lump		2,130	2,230	2,360	8.0	6.2	C51472
Do.	-	T	2-inch by 0		2,120	2,260	2,490	7.8	6.8	C51473
Kane County										
Alton										
Smirl-Alton	-	T	1-inch lump		2,510	2,560	2,680	7.9	.5	C51671
Do.	-	T	1-inch by 0		2,470	2,520	2,660	7.7	.7	C51672
Do.	-	T	1-1/2-inch lump		2,200	2,320	2,470	11.3	1.6	E99969
Do.	-	T	1-1/2- by 1/8-inch		2,310	2,380	2,570	9.6	1.2	E99970
Do.	-	T	1/8-inch by 0		2,250	2,380	2,570	9.8	1.4	E99971
Escalante (Garfield County)										
Alvey	-	T	2-inch lump		2,210	2,280	2,660	9.5	.5	C51673
Glendale										
OK	Upper Carmel	T	3/4-inch lump		1,890	2,050	2,420	9.4	3.8	B68870
Do.	do.	T	3/4- by 1/4-inch		2,020	2,080	2,570	14.3	4.1	B68871
Do.	do.	T	1/4-inch by 0		2,000	2,080	2,690	21.0	4.6	B68872
Orderville										
Adair	-	T	2-inch lump		2,260	2,330	2,680	9.1	1.0	B68866
Do.	-	T	2- by 1-inch		2,070	2,140	2,620	8.1	1.4	B68867
Do.	-	T	1- by 3/8-inch		2,090	2,170	2,560	9.9	2.2	B68868

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Do.	-	T	3/8-inch by 0		2,060	2,130	2,540	13.3	3.4	B68869
Springdale (Washington County)										
Cannel King	Upper	M		2	2,250	2,360	2,690	18.0	2.9	B50262 and B50263
San Juan County										
Monticello										
Rasmussen	-	M		1	2,280	2,360	2,390	11.6	3.9	86826
Sanpete County										
Starling										
Crystal Butte	Morrison	M		1	2,100	2,150	2,200	8.6	1.4	A29979
Sevier County										
Emery (Emery County)										
Convulsion	Ivie	T	3-inch lump		2,140	2,180	2,320	7.4	.4	C49962
Do.	do.	T	3- by 1-5/8-inch		2,130	2,170	2,450	7.7	.4	C49963
Do.	do.	T	1-5/8-inch by 0		2,120	2,170	2,430	7.6	.5	C49964
Link Canyon	-	T	3-inch lump		2,210	2,310	2,580	8.9	.4	D65619
Do.	-	T	3- by 1-3/16-inch		2,230	2,420	2,640	10.7	.4	D65620
Do.	-	T	1-3/16- by 1-inch		2,380	2,470	2,640	10.5	.4	D65621
Do.	-	T	1- by 1/4-inch		2,220	2,360	2,600	8.9	.4	D65622
Do.	-	T	1/4-inch by 0		2,210	2,360	2,520	9.0	.5	D65623
Salina										
Coal Canyon	-	M		1	2,160	2,180	2,230	11.5	.5	82237
Consolidated	-	M		3	2,140	2,180	2,250	10.0	.5	A19453 to A19455
Prospect	Sevier	M		1	2,100	2,130	2,230	4.6	.5	82238
Do.	do.	M		1	2,130	2,220	2,330	9.9	.5	82239
Sevier Valley	-	T	5-inch lump		2,180	2,230	2,310	9.5	.5	D65980
Do.	-	T	5- by 1-inch		2,230	2,260	2,380	10.7	.4	D65981
Do.	-	T	1-inch by 0		2,100	2,210	2,260	9.1	.6	D65982
Do.	-	T	1/16-inch by 0		2,000	2,230	2,290	9.7	.4	D65983
Southern Utah Fuel No. 1	Ivie	T	4-inch lump		2,000	2,140	2,310	7.2	.5	E99307
Do.	do.	T	4- by 2-1/2-inch		2,120	2,170	2,360	7.2	.5	E99308
Do.	do.	T	2-1/2- by 1/4-inch		2,080	2,150	2,230	6.7	.5	E99309
Do.	do.	T	1/4-inch by 0		2,230	2,360	2,400	7.8	.6	E99310
Summit County										
Coalville										
Chappell Brothers	Wasatch	M		1	2,220	2,280	2,330	5.2	1.5	84472
Do.	Weber	T	3-inch lump		2,360	2,450	2,510	4.0	.9	E97251
Do.	do.	T	3- by 1-1/2-inch		2,230	2,280	2,360	4.2	1.1	E97252
Do.	do.	T	1-1/2-inch by 0		2,140	2,230	2,310	4.3	1.2	E97253
Do.	do.	T	Run-of-mine		2,210	2,350	2,360	4.3	1.5	D64345
Sawley Brothers	Wasatch	M		1	2,200	2,220	2,230	5.1	1.4	84471
Weaver	do.	T	3-inch lump		2,340	2,360	2,620	5.9	1.3	B69000
Do.	do.	T	3- by 1-1/4-inch		2,160	2,210	2,630	5.9	1.3	B69001
Do.	do.	T	1-1/4-inch by 0		2,140	2,190	2,330	6.4	1.4	B69002
Weber	do.	M		4	2,180	2,220	2,260	5.0	1.6	84461 to 84464
Grass Creek										
Grass Creek	do.	M		2	2,090	2,150	2,210	4.6	2.0	84467 and 84468
Uinta County										
LaPoint										
Rasmussen	-	M		1	2,390	2,510	2,570	7.6	1.1	83228
Rainbow										
Thimbel Rock	-	M		1	2,200	2,390	2,710	1.3	.4	A30623
Vernal										
Collier	-	M		1	2,120	2,390	2,460	9.4	2.6	A23390
Pach Allen	-	M		1	2,140	2,370	2,450	10.8	2.0	A23378

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
UTAH (Con.)										
Uinta County										
Vernal										
Rich	-	M		1	2,370	2,510	2,570	8.8	1.7	A23384
Wardle	-	T	3-inch lump		1,950	2,240	2,430	10.5	2.2	E97254
Do.	-	T	3- by 1-1/2-inch		2,570	2,720	2,860	19.2	1.9	E97255
Do.	-	T	1-1/2-inch by 0		2,190	2,510	2,590	18.4	2.5	E97256
White Rocks										
Outcrop	-	M		2	2,170	2,240	2,310	12.0	2.2	83561 and 83562
Wayne County										
Cainville										
Factory Butte	-	M		1	2,200	2,310	2,550	16.9	2.6	B7899
VIRGINIA										
Bland County										
Sharon Springs										
Prospect	-	M		1	2,090	2,340	2,410	14.6	2.2	A6788
Buchanan County										
Big Rock										
Buchanan No. 1	Clintwood	T	6-inch lump		2,850	2,880	2,980	4.9	.8	A93391
Do.	do.	T	6- by 2-1/2-inch		2,840	2,920	2,980	7.1	.9	A93392
Do.	do.	T	2-1/2- by 1-1/2-inch		2,440	2,570	2,750	7.0	1.3	A93393
Do.	do.	T	1-1/2-inch by 0		2,760	2,810	2,930	7.6	1.1	A93394
Do.	do.	M		3	2,560	2,670	-	6.9	1.3	A93395 to A93397
							2,630 (2)			
Do.	Splash Dam	T	6- by 3-inch		2,510	2,670	2,810	5.6	.8	E90912
Do.	do.	T	3- by 1-1/4-inch		2,660	2,770	2,890	4.6	.7	E90913
Do.	do.	T	1-1/4-inch by 0		2,620	2,780	2,910	7.4	.7	E90914
Buchanan No. 2	Clintwood	T	Run-of-mine		2,660	2,770	2,910+	6.5	1.2	B72848
Do.	do.	M		2	2,740	2,810	2,860	5.0	1.0	A93399 and A93400
Do.	do.	T	6-inch lump		2,910+	-	-	9.9	.6	E91946
Do.	do.	T	6- by 3-inch		2,910+	-	-	9.2	.8	E91947
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	6.7	.8	E91948
Do.	do.	T	1-1/4-inch by 0		2,550	2,690	2,790	6.3	1.0	E91949
Buchanan No. 3	do.	T	Run-of-mine		2,550	2,650	2,890	7.9	1.5	B72582
Grundy										
Belcher	Shannon	T	do.		2,910	2,910+	-	10.9	.6	D62190
Do.	Lower Banner	T	do.		2,520	2,700	2,840	15.0	2.3	D62661
Do.	Clintwood	T	do.		2,620	2,700	2,800	8.6	1.2	D93278
Crystal Block No. 5	Lower Banner	T	10-inch lump		2,860	2,910+	-	5.8	1.1	D57224
Do.	do.	T	10- by 3-inch		2,890	2,910+	-	6.9	.8	D57225
Do.	do.	T	3- by 1-1/4-inch (W)		2,730	2,890	2,910+	8.3	.9	D57226
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,650	2,760	2,870	9.8	1.0	D57227
Do.	do.	T	3/4- by 3/8-inch (W)		2,680	2,730	2,840	9.9	1.2	D57228
Do.	do.	T	3/8-inch by 0		2,700	2,780	2,910+	11.1	1.2	D57229

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H & G	do.	T	10- by 3-inch		2,620	2,730	2,780	6.4	1.0	D62097
Do.	do.	T	3- by 1-1/4-inch		2,890	2,910+	-	7.0	.6	D62098
Do.	do.	T	1-1/4-inch by 0		2,780	2,890	2,910+	8.0	.6	D62099
Laurel Fork	do.	T	9- by 3-inch		2,700	2,810	2,890	6.4	.6	D57450
Do.	do.	T	3- by 1-1/4-inch (W)		2,700	2,780	2,840	7.8	.8	D57451
Do.	do.	T	1-1/4-inch by 0		2,570	2,680	2,780	8.9	1.0	D57452
Laurel Fork No. 3	Clintwood	T	Run-of-mine		2,890	2,910+	-	8.3	.8	D62662
Lee Town	Splash Dam	T	do.		2,610	2,720	2,880	6.8	.6	E91950
Lester's Fork No. 1	Eagle	T	do.		2,050	2,380	2,570	6.1	1.3	D57793
Margaret Ann	Splash Dam	T	5-inch lump		2,910+	-	-	8.8	.6	D62191
Do.	do.	T	5- by 2-inch		2,910	2,910+	-	6.4	.7	D62192
Do.	do.	T	2-inch by 0		2,910+	-	-	7.2	.8	D62193
Mills Smokeless	Lower Banner	T	11- by 4-inch		2,620	2,730	2,840	5.8	.6	D57576
Do.	do.	T	4- by 1-1/4-inch		2,730	2,780	2,840	7.3	.6	D57577
Do.	do.	T	1-1/4-inch by 0		2,730	2,780	2,840	7.2	.6	D57578
Do.	Jewell	T	3-inch lump		2,060	2,150	2,430	2.7	1.0	E91943
Do.	do.	T	3- by 1-1/2-inch		2,040	2,130	2,500	3.1	.9	E91944
Do.	do.	T	1-1/2-inch by 0		2,180	2,330	2,540	7.1	.9	E91945
Preston No. 2	do.	T	7- by 3-inch (W)		2,210	2,500	2,570	3.0	.6	E90494
Do.	do.	T	3- by 1-1/4-inch (W)		2,470	2,600	2,720	4.3	.6	E90495
Do.	do.	T	1-1/4-inch by 0 (W)		2,580	2,670	2,770	5.7	.9	E90496
Riverside	Splash Dam	T	2-inch lump		2,310	2,560	2,770	4.5	.6	E89446
Do.	do.	T	2-inch by 0		2,530	2,650	2,780	7.4	.6	E89447
T-129	do.	T	Run-of-mine		2,620	2,760	2,880	7.9	.7	E89448
Silver Ridge	Taggart (Cedar Grove)	T	5-inch lump		2,750	2,910+	-	4.0	.4	D58553
Do.	do.	T	5- by 2-inch		2,750	2,910	2,910+	4.4	.4	D58554
Do.	do.	T	2-inch by 0		2,840	2,890	2,910+	5.8	.5	D58555
White Oak	Splash Dam	T	Run-of-mine		2,730	2,890	2,910+	6.4	.7	D62096
Harman										
Harman	do.	T	6-inch lump		2,740	2,830	2,910+	5.2	.6	E87137
Do.	do.	T	6- by 3-inch		2,800	2,860	2,910+	5.7	.6	E87138
Do.	do.	T	3- by 2-inch		2,670	2,790	2,890	6.2	.6	E87139
Do.	do.	T	2- by 3/4-inch		2,850	2,910+	-	5.3	.6	E87140
Do.	do.	T	3/4-inch by 0		2,770	2,860	2,910+	7.2	.7	E87141
Home Creek										
Home Creek	Clintwood	T	2-inch lump		2,910+	-	-	6.5	.8	D58133
Do.	do.	T	2- by 3/4-inch		2,910+	-	-	8.1	.9	D58134
Do.	do.	T	3/4-inch by 0		2,680	2,780	2,840	5.8	.9	D58135
Hurley										
Knox Creek No. 1	Eagle	T	Run-of-mine		2,060	2,320	2,520	6.9	1.6	D92911
Mission	Splash Dam	T	do.		2,590	2,660	2,790	7.5	1.0	D85292
Jewell Valley										
Jewell Valley	-	T	7-inch lump		2,060	2,270	2,620	3.0	.5	B31527
Do.	-	T	7- by 3-inch		2,040	2,290	2,670	2.6	.5	B31528
Do.	-	T	3- by 1-1/4-inch		2,070	2,360	2,640	3.5	.5	B31529
Do.	-	T	1-1/4-inch by 0		2,160	2,450	2,820	5.1	.5	B31530
Jewell Valley No. 2	Jewell	T	8-1/2-inch lump		2,140	2,380	2,570	2.5	.5	E92309
Do.	do.	T	8-1/2- by 3-1/2-inch		2,110	2,380	2,570	2.4	.6	E92310
Do.	do.	T	3-1/2- by 1-3/4-inch		2,100	2,420	2,600	2.9	.5	E92311
Do.	do.	T	1-3/4-inch by 0		2,340	2,570	2,810	8.5	.6	E92312
Do.	do.	M		5	2,170	2,410	2,620	3.4	.6	E20769 to E20773
Seng Camp	do.	T	3-1/2-inch lump		2,090	2,320	2,560	3.0	.6	E92313
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,100	2,230	2,550	3.1	.6	E92314
Do.	do.	T	1-3/4-inch by 0		2,190	2,540	2,700	7.5	.6	E92315
Keen Mountain										
Keen Mountain	Lower Banner	M		5	2,560	2,670	2,840	8.4	1.6	B31362 to B31366
Do.	do.	T	7- by 3-inch		2,910+	-	-	6.2	.6	D56530
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	8.1	.6	D56531
Do.	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	9.6	.7	D56532
Do.	do.	T	3/4- by 3/16-inch		2,910+	-	-	9.0	.8	D56533
Do.	do.	T	3/16-inch by 0		2,680	2,730	2,840	10.2	.9	D56534

1 M, mine sample; T, tipple sample 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
VIRGINIA (Con.)										
Buchanan County (Con.)										
Oakwood										
Oakwood	Lower Banner	T	7-inch lump		2,560	2,740	2,910+	6.3	.9	B72260
Do.	do.	T	7- by 3-inch		2,560	2,740	2,910+	7.2	.9	B72261
Do.	do.	T	3- by 1-1/4-inch		2,330	2,590	2,760	7.8	.8	B72262
Do.	do.	T	1-1/4- by 5/8-inch		2,310	2,570	2,740	9.9	1.2	B72263
Do.	do.	T	5/8- by 5/16-inch		2,440	2,580	2,890	7.5	1.1	B72264
Do.	do.	T	5/16-inch by 0		2,350	2,570	2,910	11.1	1.5	B72265
Oakwood Smokeless	do.	M		1	2,520	2,690	2,770	8.3	1.1	B15520
Do.	do.	T	6-inch lump		2,730	2,840	2,920+	7.1	.9	B31384
Do.	do.	T	6- by 3-inch		2,780	2,890	2,910+	7.5	.8	B31385
Do.	do.	T	3- by 1-1/4-inch		2,730	2,800	-	9.5	1.1	B31386
Do.	do.	T	1-1/4- by 5/8-inch		2,560	2,670	2,840	10.7	1.3	B31387
Do.	do.	T	3- by 1/4-inch		2,480	2,570	2,750	10.6	1.5	B31388
Do.	do.	T	1/4-inch by 0		2,500	2,620	2,800	10.0	1.4	B31389
Do.	do.	T	Run-of-mine		2,620	2,700	2,900	9.5	1.4	B31390
Page										
Page	do.	M		3	2,550	2,700	2,800	7.8	.7	B15516 to B15518
Do.	do.	T	8- by 3-inch		2,610	2,720	2,910+	5.9	.5	B31531
Do.	do.	T	3- by 1-1/4-inch		2,610	2,740	2,910	6.9	.5	B31532
Do.	do.	T	1-1/4- by 5/8-inch		2,620	2,720	2,910	7.7	.6	B31533
Do.	do.	T	5/8-inch by 0		2,520	2,650	2,850	6.3	.7	B31534
Patterson										
Buccaneer	do.	M		1	2,550	2,700	2,750	7.4	1.0	B15519
Do.	do.	T	10-inch lump		2,630	2,750	2,860	5.6	1.1	E39785
Do.	do.	T	10- by 3-inch		2,620	2,740	2,840	6.1	1.0	E39786
Do.	do.	T	3- by 1-1/4-inch (W)		2,550	2,660	2,750	7.3	1.1	E39787
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,470	2,570	2,620	9.6	1.2	E39788
Do.	do.	T	3/4-inch by 0		2,570	2,640	2,710	10.7	1.6	E39789
Roseann										
Roseann	Clintwood	T	8-inch lump		2,610	2,760	2,870	4.8	.9	E93836
Do.	do.	T	8- by 3-inch		2,800	2,870	2,910+	5.0	.8	E93837
Do.	do.	T	3- by 2-inch		2,780	2,880	2,910+	5.4	.8	E93838
Do.	do.	T	2-inch by 0		2,500	2,650	2,780	7.6	1.1	E93839
Vansant										
Belridge	Red Ash	T	Run-of-mine		2,100	2,360	2,510	6.1	1.3	E90067
Vansant No. 1	Splash Dam	T	do.		2,080	2,480	2,600	3.1	.7	D93758
Whitewood										
Coronet Jewell	Red Ash	T	4-inch lump		1,970	2,090	2,380	2.6	.7	E93203
Do.	do.	T	4- by 2-inch		1,970	2,100	2,450	2.6	.8	E93204
Do.	do.	T	2- by 1-inch		2,000	2,220	2,520	3.2	.9	E93205
Do.	do.	T	1-inch by 0		2,180	2,450	2,630	9.3	.9	E93206
Crusader	Lower Banner	T	Run-of-mine		2,280	2,500	2,630	7.0	.7	F7589
Queen	Jewell	T	3-1/2-inch lump		2,010	2,190	2,510	2.7	.6	E93535
Do.	do.	T	3-1/2- by 1-1/4-inch		1,970	2,250	2,520	2.9	.6	E93536
Do.	do.	T	1-1/4-inch by 0		2,160	2,370	2,580	6.3	.7	E93537
Whitewood	Lower Banner	T	3-inch lump		2,760	2,850	2,910+	7.3	.9	E90915
Do.	do.	T	3- by 1-1/2-inch		2,600	2,660	2,760	8.4	1.1	E90916
Do.	do.	T	1-1/2-inch by 0		2,570	2,650	2,760	13.4	1.5	E90917

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Chesterfield County										
Midlothian										
Morgan Prospect	-	M		1	2,320	2,470	2,600	7.8	1.9	B16591
Dickenson County										
Bartlick										
Lonesome Pine	Splash Dam	T	Run-of-mine		2,790	2,900	2,910+	9.1	.9	B71516
Do.	do.	T	6- by 3-1/2-inch		2,790	2,880	2,910+	8.5	.8	B71517
Do.	do.	T	3-1/2-inch by 0		2,790	2,880	2,910+	7.9	.9	B71518
Clinchco										
Clinchfield No. 7	Upper Banner	T	7-inch lump		2,740	2,840	2,890	4.8	.6	D53621
Do.	do.	T	7- by 3-inch		2,750	2,840	2,910+	5.0	.6	D53622
Do.	do.	T	3- by 1-1/4-inch (W)		2,620	2,700	2,780	6.0	.6	D53623
Do.	do.	T	1-1/4- by 1/2-inch (W)		2,620	2,730	2,780	6.3	.6	D53624
Do.	do.	T	1/2-inch by 0		2,730	2,800	2,890	6.3	.7	D53625
Clinchfield No. 9	do.	M		4	2,420	2,570	2,720	4.5	.8	B11115 to B11118
Do.	do.	T	Run-of-mine		2,520	2,620	2,770	5.5	.7	B11170
Do.	do.	T	6- by 2-1/2-inch (W)		2,890	2,910+	-	5.3	.6	D52662
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,910+	-	-	5.5	.5	D52663
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,840	2,910+	-	5.0	.7	D52664
Do.	do.	T	1/4-inch by 0		2,760	2,840	2,910+	8.5	.8	D52665
Clintwood										
Greer No. 1	Clintwood	T	Run-of-mine		1,920	2,210	2,490	5.7	1.5	D53616
Coeburn (Wise County)										
Lick	do.	T	do.		2,810	2,900	2,910	6.4	.9	E88138
Moss	do.	T	6- by 3-inch (W)		2,420	2,540	2,650	3.8	.7	D52988
Do.	do.	T	3-inch by 0 (W)		2,650	2,730	2,800	5.9	.8	D52989
Do.	do.	T	3- by 2-inch (W)		2,680	2,780	2,910+	2.9	.7	D52990
Do.	do.	T	2- by 3/4-inch (W)		2,730	2,840	2,910+	3.3	.6	D52991
Moss No. 1	do.	M		1	2,050	2,520	2,680	3.7	.8	D63709
Moss No. 2	do.	M		4	2,540	2,760	2,910+(2) 2,810 (2)	3.6	.9	D63704 to D63707
Moss No. 3	do.	M		2	2,350	2,690	2,900+(1) 2,680 (1)	4.3	1.0	D63710 and D63711
Haysi										
Splash Dam	Splash Dam	T	7- by 3-inch (W)		2,750	2,860	2,910+	6.5	.6	D58559
Do.	do.	T	3- by 1-1/4-inch (W)		2,780	2,840	2,890	6.2	.6	D58560
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,680	2,780	2,860	6.9	.5	D58561
Do.	do.	T	5/8-inch by 0		2,840	2,890	2,940+	8.6	.6	D58562
Do.	do.	M		5	2,910+(1) 2,670 (4)	- 2,800 (3)	2,910+(1) 2,860 (3)	6.7	1.0	D63590 to D63594
Splash Dam Dock	Hagy	T	Run-of-mine		2,230	2,570	2,640	7.2	1.8	D58558
Nora										
Big Rock	Upper Banner	T	6-inch lump		2,310	2,440	2,520	6.8	.6	D52204
Do.	do.	T	6- by 3-inch		2,310	2,420	2,520	7.2	.4	D52205
Do.	do.	T	1-1/4- by 1/4-inch		2,420	2,520	2,750	10.0	.5	D52206
Do.	do.	T	1/4-inch by 0		2,440	2,470	2,620	8.5	.6	D52207
Cassell No. 1	do.	T	Run-of-mine		2,730	2,810	2,890	8.8	.6	D52208
Lambert No. 1	Splash Dam	T	do.		2,240	2,570	2,710	10.0	1.1	D52209
Open Fork	Upper Banner	T	do.		2,810	2,890	2,910+	9.5	.6	D52210
Toms Creek	do.	T	8-inch lump		2,180	2,310	2,520	6.0	.6	D59662
Do.	do.	T	8- by 4-inch		2,030	2,310	2,520	5.0	.7	D59663
Do.	do.	T	3-inch by 0		2,310	2,420	2,520	7.7	.7	D59664
Do.	do.	M		5	2,290	2,360	2,550	8.1	.8	D76859 to D76863
Steinman										
Steinman	do.	T	6-inch lump		2,520	2,680	2,800	4.8	.8	B71519
Do.	do.	T	6- by 2-inch		2,640	2,780	2,910+	5.8	.7	B71520
Do.	do.	T	2-inch by 0		2,600	2,770	2,910	9.3	.8	B71521
Do.	do.	T	5/8-inch by 0		2,520	2,700	2,800	7.5	.8	B71522
Trammel										
Banner No. 2	do.	M		4	2,240	2,440	2,510	6.0	1.0	82438 to 82441

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
VIRGINIA (Con.)										
Dickenson County (Con.)										
Trammel										
Big Banner	Upper Banner	T	5-inch lump		2,080	2,160	2,580	4.8	.6	B71246
Do.	do.	T	5- by 2-inch		2,280	2,340	2,620	6.0	.5	B71245
Do.	do.	T	2- by 1-inch		2,200	2,370	2,670	7.5	.6	B71244
Do.	do.	T	1- by 5/8-inch		2,200	2,370	2,730	10.0	.7	B71243
Do.	do.	T	5/8-inch by 0		2,230	2,330	2,590	14.3	1.1	B71242
Hale	Lower Banner	T	Run-of-mine		2,100	2,480	2,670	11.0	.9	B71523
L & T	do.	T	5-inch lump		2,300	2,430	2,680	6.8	.7	B71758
Do.	do.	T	5- by 2-inch		2,380	2,420	2,660	6.8	.7	B71759
Do.	do.	T	2-inch by 0		2,310	2,400	2,660	8.8	1.0	B71760
McCoy	do.	T	Run-of-mine		2,190	2,420	2,680	7.1	.8	B71247
Rose-McCoy No. 1	Upper Banner	T	do.		2,030	2,260	2,570	6.9	.6	D52302
Rose-McCoy No. 2	Lower Banner	T	do.		2,050	2,470	2,620	8.8	1.0	D52301
Wakenva										
Honey Creek	Upper Banner	T	6- by 3-inch		2,210	2,350	2,550	6.4	.6	B71754
Do.	do.	T	3- by 1-1/2-inch		2,280	2,490	2,890	8.9	.6	B71755
Do.	do.	T	1-1/2- by 3/4-inch		2,340	2,550	2,900	11.7	.6	B71756
Do.	do.	T	3/4-inch by 0		2,390	2,450	2,680	11.1	.6	B71757
Lee County										
Benedict										
Benedict No. 7	Phillips	T	6-inch lump		2,800	2,870	2,910+	7.6	.7	C38745
Do.	do.	T	6- by 2-7/8-inch		2,810	2,870	2,910+	9.1	.9	C38746
Do.	do.	T	2-7/8-inch by 0		2,910+	-	-	10.9	.8	C38747
Virglow No. 11	Low Splint	T	8-inch lump		2,340	2,430	2,740	4.5	.6	C38748
Do.	do.	T	8- by 3-1/8-inch		2,440	2,580	2,720	6.8	.5	C38749
Do.	do.	T	3-1/8-inch by 0		2,540	2,710	2,870	10.8	.6	C38750
Bonny Blue										
Bonny Blue	Pardee	T	5-inch lump		2,430	2,620	2,890	7.3	.8	B69834
Do.	do.	T	5- by 2-1/2-inch		2,230	2,520	2,850	8.9	.8	B69833
Do.	do.	T	2-1/2-inch by 0		2,520	2,650	2,850	12.4	.9	B69832
Calvin										
Calvin	Low Splint	T	2-1/2-inch lump		2,450	2,640	2,910+	6.3	.7	B70419
Do.	do.	T	2-1/2-inch by 0		2,690	2,810	2,910+	10.4	.8	B70418
Calvin No. 5	Taggart	T	6-inch lump		2,520	2,570	2,680	2.9	.8	D59765
Do.	do.	T	6- by 2-1/2-inch		2,360	2,470	2,570	3.0	.6	D59766
Do.	do.	T	1- by 1/4-inch		2,310	2,470	2,680	3.4	.6	D59767
Do.	do.	T	1/4-inch by 0		2,230	2,360	2,620	6.0	.7	D59768
Whitaker Harlan	Harlan	T	Run-of-mine		2,080	2,170	2,460	6.4	1.1	E39695
Darbyville										
Darby	Taggart	M		4	2,020	2,180	2,310	1.9	.5	82433 to 82436
Ewing										
Chadwell Gap	do.	T	4-1/4-inch lump		2,050	2,220	2,420	1.9	.8	B42690
Do.	do.	T	4-1/4- by 2-1/2-inch		2,250	2,360	2,620	2.4	.8	B42691
Do.	do.	T	2-1/2- by 1-1/4-inch		2,280	2,470	2,710	3.4	.7	B42692
Do.	do.	T	1-1/4- by 1/3-inch		2,610	2,700	2,850	5.6	.7	B42693
Do.	do.	T	1/3-inch by 0		2,660	2,730	2,800	11.3	.7	B42694

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Pennington Gap											
Virginia Darby		do.	T	2-1/2-inch lump		1,900	2,130	2,420	1.9	.7	D60827
Do.		do.	T	2-1/2- by 1-1/8-inch		2,150	2,310	2,470	1.9	.6	D60828
Do.		do.	T	1-1/8- by 3/8-inch		2,080	2,290	2,500	3.2	.6	D60829
Do.		do.	T	3/8-inch by 0		2,030	2,150	2,520	4.2	.8	D60830
Saint Charles											
Benvir		do.	T	6-inch lump		2,090	2,220	2,440	2.2	.6	E92316
Do.		do.	T	6- by 3-inch		2,170	2,370	2,470	2.5	.5	E92317
Do.		do.	T	3- by 1/4-inch		2,130	2,260	2,480	4.3	.6	E92318
Do.		do.	T	1/4-inch by 0		2,180	2,260	2,470	6.0	.7	E92319
Benvir No. 5		do.	T	6-inch lump		1,940	2,180	2,420	1.9	.6	D60831
Do.		do.	T	6- by 3-inch		2,150	2,360	2,490	2.0	.5	D60832
Do.		do.	T	1- by 1/4-inch		2,150	2,360	2,520	2.8	.4	D60833
Do.		do.	T	1/4-inch by 0		1,900	2,180	2,420	3.7	.6	D60834
Bondurant		do.	T	Run-of-mine		2,230	2,510	2,570	7.0	.6	81728
Bondurant No. 3		do.	M		4	2,370	2,480	-	2.8	.5	82423 to 82426
								2,490 (2)			
Darbyville		do.	T	4-inch lump		2,240	2,450	2,510	3.2	.5	81548
Do.		do.	T	4- by 1-1/2-inch		2,200	2,350	2,500	6.0	.5	81549
Dominion		do.	T	Run-of-mine		2,040	2,200	2,570	3.4	.5	81416
Do.		do.	T	1-1/2-inch lump		1,990	2,080	2,130	2.6	.5	81547
Do.		do.	M		4	1,990	2,120	2,170	2.6	.5	82428 to 82431
Kemmerer		do.	T	6-inch lump		2,170	2,310	2,450	2.4	.6	B69968
Do.		do.	T	6- by 3-inch		2,230	2,370	2,650	2.4	.5	B69967
Do.		do.	T	1-inch by 0		2,180	2,320	2,620	5.7	.6	B69966
Kemmerer Gem No. 2		do.	T	5-inch lump		2,180	2,360	2,520	2.1	.5	D60136
Do.		do.	T	5- by 3-inch		2,180	2,360	2,520	2.2	.5	D60137
Do.		do.	T	1- by 1/4-inch		2,150	2,230	2,520	3.5	.5	D60138
Do.		do.	T	1/4-inch by 0		2,150	2,230	2,470	7.3	.5	D60139
King Cole		do.	T	8- by 3-inch		2,210	2,360	2,570	1.8	.6	D60038
Do.		do.	T	3- by 1-1/2-inch		2,180	2,420	2,620	4.7	.5	D60039
Do.		do.	T	1-1/2- by 1-inch		2,150	2,420	2,620	4.7	.5	D60040
Do.		do.	T	1- by 3/8-inch		2,150	2,420	2,620	4.8	.5	D60041
Do.		do.	T	3/8-inch by 0		2,180	2,470	2,680	5.8	.5	D60042
Kirk		do.	M		4	2,100	2,230	2,300	2.1	.5	82418 to 82421
Monarch		do.	T	8-inch lump		2,180	2,310	2,470	2.0	.4	D60837
Do.		do.	T	8- by 5-inch		2,310	2,420	2,620	2.0	.5	D60838
Do.		do.	T	1- by 1/4-inch		2,130	2,210	2,360	3.0	.6	D60839
Do.		do.	T	1/4-inch by 0		2,150	2,210	2,360	4.0	.7	D60840
Virginia Lee		do.	T	5-1/2-inch lump		2,150	2,260	2,510	2.5	.5	B69838
Do.		do.	T	5-1/2- by 3-inch		2,040	2,210	2,590	2.6	.5	B69837
Do.		do.	T	1- by 3/8-inch		2,320	2,420	2,730	5.8	.5	B69836
Do.		do.	T	3/8-inch by 0		2,240	2,340	2,560	7.1	.6	B69835
Wilma No. 1		do.	T	1-inch lump		1,970	2,160	2,380	3.2	.5	81493
Montgomery County											
Blacksburg											
Diamond Coal Company		Merrimac	M		2	2,130	2,290	2,400	21.8	.5	93530 and 93531
Kinzar		do.	M		1	2,440	2,580	2,680	18.0	.7	94185
Linkous & Kipps		do.	M		2	2,630	2,780	2,870	17.4	.6	93533 and 93534
Otey		do.	M		4	2,690	2,910+(1)	-	18.5	.5	B28116 to B28119
							2,760 (3)	2,880 (3)			
Do.		do.	T	5- by 2-3/4-inch		2,730	2,900	2,910+	17.4	.5	B28485
Do.		do.	T	2-3/4- by 2-inch		2,840	2,910+	-	19.4	.4	B28486
Do.		do.	T	2- by 1-inch		2,840	2,920+	-	20.5	.4	B28487
Do.		do.	T	1- by 3/4-inch		2,840	2,920+	-	20.0	.4	B28488
Do.		do.	T	3/4- by 1/2-inch		2,850	2,910+	-	19.9	.4	B28489
Slusser		do.	M		2	2,210	2,260	2,370	16.3	.6	A2349 and A2350
Slusser & Doss		do.	M		1	2,570	2,800	2,860	16.2	.5	94184
V. P. I.		do.	M		2	2,770	2,880	2,930	16.1	.5	93536 and 93537
Christiansburg											
Hard Coal		do.	M		4	2,330	2,480	2,700	14.5	.5	B28056 to B28059

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
VIRGINIA (Con.)										
Montgomery County (Con.)										
Christiansburg										
Hard Coal	Merrimac	T	1-3/4- by 3/4-inch (W)		2,280	2,350	2,620	18.0	.4	B28401
Do.	do.	T	3/4- by 1/2-inch (W)		2,350	2,500	2,740	19.6	.4	B28402
Old Hickman	do.	M		1	2,740	2,880	2,910+	20.3	.6	B28269
Great Valley										
Great Valley	do.	M		5	2,410	2,550	2,770	24.8	.7	B28226 to B28230
Do.	do.	T	3-1/2- by 2-1/2-inch		2,400	2,480	2,630	22.4	.6	A65844
Do.	do.	T	2-1/2- by 1-3/4-inch		2,400	2,480	2,630	22.0	.6	A65845
Do.	do.	T	1-3/4- by 7/8-inch		2,400	2,500	2,710	19.8	.6	A65846
Do.	do.	T	7/8- by 1/2-inch		2,370	2,570	2,760	18.6	.9	A65847
Do.	do.	T	1/2- by 1/8-inch		2,390	2,610	2,730	19.8	.9	A65848
Do.	do.	T	1/8-inch by 0		2,360	2,550	2,690	20.6	1.0	A65849
McCoy										
Big Vein	do.	M		3	2,430	2,600	2,710	24.1	.6	A26863 to A26865
McCoy No. 4	do.	T	3- by 2-1/8-inch		2,370	2,430	2,830	24.6	.4	B50950
Do.	do.	T	2-1/8- by 1-inch		2,410	2,470	2,850	21.0	.5	B50951
Do.	do.	T	1- by 9/16-inch		2,480	2,600	2,870	19.4	.6	B50952
Do.	do.	T	9/16- by 1/4-inch		2,570	2,780	2,910+	29.4	.7	B50953
Do.	do.	T	1/4- by 3/16-inch		2,550	2,710	2,840	23.5	.7	B50954
Do.	do.	T	3/16-inch by 0		2,480	2,570	2,780	20.4	.9	B50955
Superior	do.	M		1	2,630	2,910	2,910+	20.8	.8	95615
Do.	do.	M		5	2,320	2,450	2,720	21.4	.6	B28050 to B28054
Do.	do.	T	3- by 2-inch		2,360	2,440	2,680	25.6	.5	B28397
Do.	do.	T	2- by 7/8-inch (W)		2,370	2,560	2,790	26.6	.6	B28398
Do.	do.	T	7/8- by 9/16-inch		2,600	2,740	2,840	24.6	.7	B28399
Do.	do.	T	9/16- by 7/16-inch (W)		2,490	2,700	2,880	22.1	.6	B28400
Merrimac										
Brumfield	do.	M		1	2,740	2,850	-	14.4	.5	95619
Merrimac	do.	M		2	2,280	2,380	2,440	17.4	.5	94180 and 94181
Do.	do.	M		3	2,630	2,780	2,910+(2) 2,750 (1)	15.3	.9	B28222 to B28224
Do.	do.	T	4- by 3-inch		2,150	2,230	2,500	18.7	.5	B616
Do.	do.	T	3- by 2-inch		2,240	2,310	2,520	17.8	.5	B617
Do.	do.	T	2- by 3/4-inch		2,270	2,390	2,640	19.8	.5	B618
Do.	do.	T	1/4-inch by 0		2,550	2,630	2,750	23.2	.4	B619
Keister	Langhorne	M		1	2,740	2,910	2,940	13.2	.3	93539
Pulaski County										
Parrott										
Parrott	Merrimac	M		4	2,250	2,360	2,460	24.7	.7	A26877 to A26880
Do.	do.	T	3-1/2- by 2-1/2-inch		2,260	2,310	2,550	23.5	.4	B610
Do.	do.	T	2-1/2- by 1-7/8-inch		2,390	2,450	2,680	22.0	.5	B611
Do.	do.	T	1-7/8- by 3/4-inch		2,410	2,550	2,730	22.6	.6	B612
Do.	do.	T	3/4- by 1/2-inch		2,470	2,650	2,810	21.0	.6	B613
Do.	do.	T	1/2- by 1/4-inch		2,470	2,650	2,810	20.8	.7	B614
Do.	do.	T	1/4-inch by 0		2,420	2,510	2,630	23.1	.8	B615

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Pulaski										
Empire	Langhorne	M		5	2,520	2,640	2,910+(1) 2,790 (4)	20.1	.6	B28270 to B28274
Do.	do.	T	3- by 2-inch		2,230	2,350	2,690	22.7	.5	B28341
Do.	do.	T	2- by 1-inch		2,420	2,570	2,830	27.9	.5	B28342
Do.	do.	T	1- by 1/2-inch		2,510	2,650	2,810	25.9	.6	B28343
Do.	do.	T	1/2- by 1/4-inch		2,520	2,680	2,800	23.1	.7	B28344
Do.	do.	T	1/4-inch by 0		2,560	2,710	2,810	20.1	.8	B28345
High Carbon	Merrimac	M		1	2,790	2,850	-	24.5	.3	94192
Russell County										
Dante										
Clinchfield No. 2	Upper Banner	T	6- by 3-inch		2,120	2,250	2,590	6.0	.4	B72993
Do.	do.	T	3- by 2-inch		2,210	2,340	2,650	6.4	.5	B72994
Do.	do.	T	2- by 1-inch (W)		2,190	2,320	2,680	5.9	.6	B72995
Do.	do.	T	1- by 3/8-inch (W)		2,290	2,370	2,600	6.7	.5	B72996
Do.	do.	T	3/8-inch by 0		2,250	2,320	2,570	9.1	.6	B72997
Clinchfield No. 3	do.	T	7-inch lump		2,100	2,130	2,710	5.8	.6	B73199
Do.	do.	T	7- by 2-1/2-inch		2,110	2,160	2,710	7.0	.5	B73200
Do.	do.	T	2-1/2-inch by 0		2,320	2,410	2,680	11.0	.6	B73201
Clinchfield No. 52	Lower Banner	T	9- by 3-inch		2,160	2,240	2,510	6.5	.7	E88139
Do.	do.	T	3- by 1-1/4-inch		2,220	2,370	2,520	7.6	.7	E88140
Do.	do.	T	1-1/4-inch by 0		2,240	2,360	2,500	8.4	.9	E88141
Clinchfield No. 53	do.	T	6-inch lump		2,160	2,230	2,520	6.9	.6	E88142
Do.	do.	T	6- by 3-inch		2,230	2,320	2,460	6.6	.6	E88143
Do.	do.	T	3-inch by 0		2,230	2,320	2,460	8.0	.6	E88144
Clinchfield No. 56	do.	M		3	2,240	2,380	2,490	6.1	.8	C70002 to C70004
Woods	do.	T	6-inch lump		2,320	2,420	2,580	6.6	.6	F7585
Do.	do.	T	6- by 3-inch		2,210	2,290	2,490	6.6	.6	F7586
Do.	do.	T	3- by 2-inch		2,260	2,340	2,430	6.2	.6	F7587
Do.	do.	T	2-inch by 0		2,050	2,340	2,470	9.2	1.0	F7588
Raven										
Pine Ridge No. 1	Upper Banner	T	Run-of-mine		2,250	2,520	2,890	7.9	.7	B71977
St. Paul (Wise County)										
Carbo	Lower Banner	T	1/2-inch by 0		2,130	2,230	2,490	7.6	1.2	D53615
Clinchfield No. 201	Tiller	M		3	2,280	2,410	2,590	6.0	.5	D63337 to D63339
Rasick	Jawbone	M		3	2,260	2,390	2,570	13.4	.5	D63596 to D63598
Swords Creek										
Kennedy	Upper Banner	T	6-inch lump		2,220	2,310	2,710	5.9	.5	B71999
Do.	do.	T	6- by 3-inch		2,210	2,420	2,770	6.3	.5	B72000
Do.	do.	T	3- by 1-1/2-inch		2,210	2,310	2,810	6.0	.5	B72001
Do.	do.	T	1-1/2- by 7/8-inch (W)		2,240	2,330	2,810	6.2	.5	B72002
Do.	do.	T	7/8- by 3/8-inch (W)		2,220	2,310	2,540	6.5	.5	B72003
Do.	do.	T	3/8-inch by 0		2,210	2,320	2,810	7.6	.6	B72004
Tazewell County										
Boissevain										
Boissevain	Pocahontas No. 3	M		2	2,320	2,420	2,570	3.7	.6	A79574 and A79575
Do.	do.	T	7-inch lump		2,230	2,380	2,500	2.7	.4	E1298
Do.	do.	T	7- by 3-1/2-inch		2,660	2,780	2,880	3.5	.5	E1299
Do.	do.	T	3-1/2- by 1-3/4-inch		2,490	2,610	2,780	4.1	.4	E1300
Do.	do.	T	1-3/4- by 3/4-inch		2,520	2,640	2,740	4.2	.4	E1301
Do.	do.	T	3/4-inch by 0		2,420	2,640	2,850	7.3	.5	E1302
Jewell Ridge										
W. Howard Altizer	Jewell	T	Run-of-mine		2,380	2,590	2,670	6.7	.9	C76879
Jewell Ridge	do.	T	6-inch lump		2,050	2,190	2,560	3.1	.7	B11471
Do.	do.	T	6- by 2-1/2-inch		2,040	2,170	2,550	3.2	.7	B11472
Do.	do.	T	2-1/2- by 1-1/4-inch		2,070	2,280	2,590	4.6	.7	B11473
Do.	do.	T	1-1/4-inch by 0		2,180	2,450	2,600	6.7	.7	B11474
Jewell Ridge No. 1	do.	M		5	2,130	2,280	2,580	3.1	.8	E20763 to E20767

1 M, mine sample; T, tipple sample 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
VIRGINIA (Con.)										
Tazewell County (Con.)										
Jewell Ridge										
Jewell Ridge No. 1	Jewell	T	7-inch lump		2,100	2,330	2,520	4.3	.8	E91502
Do.	do.	T	7- by 3-1/4-inch		2,130	2,360	2,520	4.2	.8	E91503
Do.	do.	T	3-1/4- by 1-1/2-inch		2,080	2,310	2,520	4.9	.8	E91504
Do.	do.	T	1-1/2-inch by 0		2,250	2,510	2,650	8.1	.9	E91505
Pocahontas										
Baby West	Pocahontas No. 3	T	Run-of-mine		2,420	2,570	-	5.8	.7	A10670
Pocahontas	do.	T	8- by 5-1/2-inch		2,500	2,670	2,810	3.4	.6	E1303
Do.	do.	T	5-1/2- by 3-1/2-inch (W)		2,360	2,580	2,670	2.9	.5	E1304
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,710	2,780	2,860	6.2	.5	E1305
Do.	do.	T	1-3/4- by 3/4-inch (W)		2,570	2,710	2,910	5.6	.5	E1306
Do.	do.	T	3/4-inch by 0		2,360	2,520	2,720	6.4	.6	E1307
Pocahontas No. 1	do.	T	8- by 4-1/2-inch		2,260	2,470	2,650	2.9	.7	D61655
Do.	do.	T	4-1/2- by 3-inch (W)		2,470	2,620	2,840	3.3	.6	D61656
Do.	do.	T	3- by 1-1/4-inch (W)		2,620	2,780	2,840	6.9	.6	D61657
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,730	2,840	2,910+	6.3	.6	D61658
Do.	do.	T	3/4-inch by 0		2,520	2,680	2,840	6.5	.7	D61659
Red Ash										
Premier	Raven	T	7-1/2-inch lump		2,100	2,250	2,470	2.8	.7	B72255
Do.	do.	T	7-1/2- by 2-1/2-inch		2,110	2,240	2,470	3.5	.8	B72256
Do.	do.	T	2-1/2- by 1-inch (W)		2,110	2,230	2,580	4.5	.6	B72257
Do.	do.	T	1- by 1/4-inch		2,130	2,310	2,540	5.6	.7	B72258
Do.	do.	T	1/4-inch by 0		2,170	2,350	2,540	7.0	.8	B72259
Raven Coals No. 1	do.	T	7-inch lump		2,110	2,250	2,460	3.6	.5	B71978
Do.	do.	T	7- by 2-1/2-inch		2,060	2,180	2,440	3.7	.6	B71979
Do.	do.	T	2-1/2- by 1-1/4-inch		2,080	2,160	2,310	3.8	.6	B71980
Do.	do.	T	1-1/4- by 3/4-inch		2,080	2,180	2,310	4.2	.5	B71981
Do.	do.	T	3/4- by 1/4-inch		2,090	2,220	2,430	4.3	.5	B71982
Do.	do.	T	1/4-inch by 0		2,110	2,360	2,550	12.7	.5	B71983
Raven Red Ash No. 2	do.	T	7-inch lump		1,980	2,070	2,240	3.1	.6	B71792
Do.	do.	T	7- by 2-1/2-inch		2,040	2,150	2,310	4.0	.5	B71793
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,020	2,100	2,300	4.0	.5	B71794
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,020	2,140	2,300	4.7	.5	B71795
Do.	do.	T	3/4- by 1/4-inch (W)		2,110	2,200	2,400	5.2	.5	B71796
Do.	do.	T	3/4-inch by 0		2,070	2,350	2,510	10.2	.6	B71797
Richlands										
Ball Red Ash	do.	T	4-inch lump		2,310	2,470	2,570	3.1	.5	D62663
Do.	do.	T	4- by 3-inch		2,150	2,340	2,470	2.9	.7	D62664
Do.	do.	T	3- by 1-inch		2,180	2,570	2,620	6.4	.6	D62665
Do.	do.	T	1- by 1/2-inch		2,180	2,360	2,570	7.1	.6	D62666
Do.	do.	T	1/2-inch by 0		2,570	2,740	2,790	8.6	.7	D62667
Doran	Lower Banner	T	Run-of-mine		2,620	2,750	2,780	8.3	.9	D62668
Norma	Upper Seaboard	T	7-inch lump		2,210	2,350	2,400	3.7	.6	E46499
Do.	do.	T	7- by 3-inch		2,200	2,260	2,370	3.4	.5	E46500
Do.	do.	T	3- by 1-1/2-inch		2,100	2,140	2,200	3.9	.5	E46501
Do.	do.	T	3/4- by 3/8-inch		2,160	2,220	2,440	5.3	.6	E46502
Do.	do.	T	3/8-inch by 0		2,170	2,330	2,500	6.4	.5	E46503

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Rapoca	Raven	T	7-inch lump		2,150	2,230	2,470	2.8	.5	D56034
Do.	do.	T	7- by 3-inch		2,150	2,420	2,570	2.5	.5	D56035
Do.	do.	T	3- by 2-inch		2,130	2,150	2,470	3.8	.6	D56036
Do.	do.	T	3/4- by 3/8-inch		2,120	2,240	2,450	5.0	.6	D56037
Raven No. 2	do.	T	6-inch lump		2,050	2,220	2,410	3.2	.6	E90918
Do.	do.	T	6- by 2-1/2-inch		2,180	2,260	2,500	4.0	.6	E90919
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,120	2,220	2,450	3.2	.6	E90920
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,130	2,310	2,550	8.0	.7	E90921
Do.	do.	T	3/4- by 1/4-inch (W)		2,140	2,290	2,540	6.2	.7	E90922
Do.	do.	T	1/4- by 1/8-inch		2,180	2,360	2,610	7.9	.7	E90923
Do.	do.	T	1/8-inch by 0		2,230	2,420	2,600	14.5	.8	E90924
Wise County										
Appalachia										
Crossbrook No. 1	Imboden	T	Run-of-mine		2,680	2,760	2,860	10.8	.8	E88603
Crossbrook No. 2	do.	T	do.		2,740	2,840	2,910+	10.8	.8	E88878
Inman	do.	T	do.		2,840	2,910+	-	8.0	.8	D59501
Banner										
Flemming	Upper Banner	T	6-inch lump		2,240	2,400	2,860	4.9	.6	B70996
Do.	do.	T	6-inch by 0		2,340	2,650	2,910+	9.3	.7	B70995
Blackwood										
Jackson	Imboden	T	Run-of-mine		2,680	2,860	2,910+	8.3	.7	D56122
Coeburn										
Brooks	Shannon	T	do.		2,340	2,420	2,620	23.4	.9	E89453
Moss	Clintwood	T	1-1/4- by 1/4-inch (W)		2,660	2,730	2,840	4.5	.9	E87373
Shannon No. 1	Shannon	T	6- by 3/8-inch		2,380	2,460	2,620	13.8	.7	D59183
Do.	do.	T	3/8-inch by 0		2,380	2,460	2,620	22.4	.8	D59184
Cranes Nest										
Cranes Nest	Upper Banner	T	6-inch lump		2,730	2,800	2,910	4.8	.5	D55847
Do.	do.	T	6- by 3-inch		2,730	2,780	2,890	4.3	.6	D55848
Do.	do.	T	3- by 3/4-inch		2,860	2,910+	-	8.4	.5	D55849
Do.	do.	T	3/4-inch by 0		2,680	2,780	2,890	8.9	.6	D55850
Do.	do.	T	3- by 2-inch		2,780	2,860	2,910+	5.2	.5	D55851
Do.	do.	T	2-inch by 0		2,780	2,890	2,910+	9.0	.6	D55852
Derby										
Derby	Taggart	T	Run-of-mine		2,130	2,320	2,480	3.0	.6	A57868
Do.	do.	M		3	2,250	2,520	2,660	2.8	.6	A58037, A58084, and A58085
Do.	do.	T	3-inch lump		2,250	2,660	2,840	2.8	.6	B70248
Do.	do.	T	3- by 1-1/2-inch		2,240	2,530	2,730	2.5	.5	B70247
Do.	do.	T	1-1/2-inch by 10-mesh		2,520	2,650	2,910+	5.8	.7	B70246
Do.	do.	T	10-mesh by 0		2,230	2,360	2,860	3.8	.6	B70245
Dorchester										
Wise No. 4	Norton	T	3- by 1-1/4-inch		2,630	2,730	2,890	4.7	.9	E90069
Do.	do.	T	1-1/4- by 1/4-inch		2,570	2,760	2,910+	5.5	1.1	E90070
Do.	do.	T	1/4-inch by 0		2,670	2,760	2,860	5.9	1.1	E90071
Dunbar										
Dunbar	Taggart	T	Run-of-mine		2,170	2,450	2,500	3.8	.7	A57867
Do.	do.	M		3	2,130	2,290	2,520	2.8	.8	A58012 to A58014
Do.	do.	T	1-1/2-inch lump		2,290	2,430	2,760	3.1	.7	B70300
Do.	do.	T	1-1/2- by 3/4-inch		2,120	2,300	2,580	2.6	.8	B70299
Do.	do.	T	3/4-inch by 0		2,140	2,310	2,580	3.1	.8	B70298
Esserville										
Christie	Blair	T	Run-of-mine		2,670	2,840	2,910+	7.2	.8	B70853
Christie E	Dorchester	T	do.		2,020	2,200	2,520	7.1	2.5	E89454
Glamorgan										
Glamorgan	do.	T	do.		2,160	2,410	2,590	9.7	1.1	B70754
Imboden										
Imboden	Imboden	T	do.		2,720	2,800	2,910+	12.8	1.2	E88879
Norton										
Dickenson Dock	Clintwood	T	do.		2,030	2,150	2,360	5.2	.8	D53614

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
VIRGINIA (Con.)										
Wise County (Con.)										
Norton										
Dixiana	Taggart	M		3	2,420	2,590	2,830	3.4	.7	D76865, D76866, and D76868
Do.	do.	T	8- by 5-inch (W)		2,490	2,660	2,840	2.2	.7	E89888
Do.	do.	T	2-inch by 0 (W)		2,380	2,580	2,840	3.8	.8	E89889
Do.	do.	T	1- by 1/4-inch (W)		2,490	2,650	2,910	2.6	.8	E89890
Hawthorne	Norton	T	Run-of-mine		2,340	2,670	2,870	8.0	1.3	B70424
Norton No. 11	do.	T	do.		2,270	2,570	2,910+	7.6	1.2	B70145
Pine Branch	Taggart	T	5- by 1-1/2-inch		2,510	2,630	2,720	2.6	.7	E88880
Do.	do.	T	1-1/2- by 1/4-inch		2,310	2,500	2,710	2.6	.7	E88881
Do.	do.	T	1/4-inch by 0		2,450	2,560	2,760	2.8	.7	E88882
Vigo No. 1	do.	T	Run-of-mine		2,510	2,650	2,790	3.8	1.0	D76872
Wharton	Dorchester	T	do.		2,040	2,140	2,210	3.8	1.9	D63730
Pardee										
Pardee	High Splint	T	7-inch lump		2,860	2,910+	-	4.0	.5	D54571
Do.	do.	T	7- by 3-inch		2,840	2,870	2,910+	4.4	.5	D54572
Do.	do.	T	3- by 2-inch		2,820	2,890	2,910+	5.4	.5	D54573
Do.	do.	T	2-inch by 0		2,890	2,910+	-	8.1	.6	D54574
Pardee No. 1	Pardee	M		6	2,680	2,810	2,870	6.4	1.0	84357 to 84362
Pardee No. 4	do.	M		2	2,720	2,800	2,860	6.8	1.0	84364 and 84365
Pound										
Meade	Clintwood	T	8- by 4-inch (W)		1,990	2,310	2,540	3.6	1.5	E89455
Do.	do.	T	2- by 1/4-inch (W)		2,180	2,450	2,560	4.6	1.5	E89456
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,230	2,530	2,660	4.1	1.2	E89457
Do.	do.	T	1/4-inch by 0		2,250	2,510	2,630	11.7	1.7	E89458
Do.	do.	M		3	2,490	2,730	2,840	4.4	1.3	D63713 to D63715
Roda										
Roda No. 3	Taggart	M		2	2,120	2,290	2,380	3.3	.6	A57962 and A57963
Roda No. 4	do.	M		1	2,170	2,310	2,530	2.2	.6	A57961
Saint Paul										
Virginia City	Lower Banner	T	Run-of-mine		2,110	2,500	2,650	7.9	.6	D83856
Stonega										
Stonega	Imboden	T	do.		2,670	2,750	2,870	7.3	1.0	C38351
Tacoma										
Tacoma	Raven	T	do.		2,590	2,730	2,890	18.7	.8	E89147
Toms Creek										
Royal Banner	Upper Banner	T	5-inch lump		2,250	2,350	2,780	6.0	.7	B70855
Do.	do.	T	5-inch by 0		2,280	2,410	2,890	9.9	.8	B70854
Toms Creek	Blair	T	Run-of-mine		2,570	2,680	2,780	3.6	.8	D52661
Wise										
Gladeville	Dorchester	T	do.		2,080	2,360	2,570	9.5	1.2	D54916
Wythe County										
Gunton Park										
Pulaski Smokeless	Clark	M		1	2,390	2,510	2,630	28.9	.6	95461
Gunton Park	No. 1	M		3	2,300	2,440	2,530	23.2	1.2	A7746 to A7748
Do.	Thick	M		1	2,280	2,390	2,510	23.0	.7	A7750

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Do.		M		1	2,390	2,570	2,650	16.0	1.1	A7751
Max Meadows										
Prospect	Langhorne	M		1	2,790	2,920	2,950	19.9	.5	93540
Pulaski Smokeless	Gunton	M		2	2,260	2,450	2,570	22.8	1.2	93937 and 93938
Rural Retreat										
Brown Prospect		M		1	2,620	2,740	2,800	24.3	.7	93670
WASHINGTON										
Chelan County										
Wenatchee										
Dry Gulch	Winze	M		2	-	2,930+	-	36.1	.8	A52422 and A52423
Cowlitz County										
Castle Rock										
Cherry	Cherry	M		1	2,520	2,630	2,720	15.7	1.4	A56015
Silver Lake	-	M		1	2,910+	-	-	41.5	1.3	D99818
King County										
Auburn										
Youngblood Prospect	-	M		1	2,050	2,080	2,140	16.0	2.4	A97932
Bayne										
Bayne	Carbon	T	Run-of-mine		2,190	2,280	2,480	17.8	1.0	A54136
Do.	do.	M		3	2,280	2,330	2,420	13.8	.8	A54389 to A54391
Bayne No. 3	-	M		1	-	2,910+	-	19.9	.7	B6122
Do.	Bolde	T	2-1/4- by 1-1/4-inch (W)		-	2,910+	-	24.4	.6	B33746
Do.	do.	T	1-1/4- by 7/8-inch (W)		-	2,910+	-	22.6	.6	B33747
Do.	do.	T	7/8-inch by 0 (W)		-	2,910+	-	18.1	.6	B33748
Black Diamond										
Franklin	McKay	T	3-inch lump		2,190	2,260	2,520	4.5	.5	B99032
Do.	do.	T	3-inch by 0		2,790	2,840	2,910+	18.1	.6	B99033
Do.	do.	T	3- by 1-inch (W)		2,810	2,860	2,910+	11.3	.6	B99034
Do.	do.	T	1- by 3/32-inch (W)		2,810	2,870	2,910+	9.4	.6	B99035
Do.	do.	T	3/32-inch by 0 (W)		2,760	2,820	2,910+	10.8	.7	B99036
Do.	do.	M		3	2,480	2,540	2,780	7.7	.6	C21218 to C21220
Franklin Gem	Gem	M		1	2,910+	-	-	11.6	.9	C21380
Do.	do.	T	1-inch lump		2,910+	-	-	11.7	.6	B98791
Do.	do.	T	1-inch by 0		2,860	2,890+	-	12.5	.8	B98792
Gem	do.	M		1	2,890	2,910+	-	18.5	.5	C21382
J. & P.	Kummer No. 1	M		1	2,660	2,730	2,790	14.6	.4	C21222
Kummer	No. 1	T	1-1/4- by 3/4-inch		2,730	2,780	2,910	17.3	.5	B38732
Do.	do.	T	3/4- by 1/4-inch		2,730	2,810	2,890	16.1	.5	B38733
Do.	do.	M		1	-	2,910+	-	16.7	.6	B38734
Do.	Kummer No. 4	M		1	2,370	2,450	2,680	19.3	.7	C40881
Strain-Upper Diamond	McKay	T	3-inch lump		2,170	2,350	2,590	5.6	.6	B31777
Do.	do.	T	3- by 7/8-inch (W)		2,150	2,230	2,630	5.7	.9	B31778
Do.	do.	T	1/8-inch by 0 (W)		2,200	2,270	2,700	6.0	.8	B31779
Do.	do.	M		3	2,130	2,210	2,720	3.9	.7	B36488 to B36490
Cumberland										
Bayne No. 3	Bolde	M		1	-	2,910	-	22.9	.6	B32218
Durham	Durham No. 2	M		1	2,560	2,620	2,730	18.1	.9	C22079
Eureka-Navy	No. 4	T	2-1/2-inch lump		2,320	2,440	2,720	16.3	.9	A54130
Do.	do.	T	2-1/2- by 1-inch		2,840	2,850	2,880	18.7	.7	A54131
Do.	do.	T	1-inch by 0		2,820	2,860	2,880	14.5	.8	A54132
Do.	Eureka-Navy	M		1	2,390	2,520	2,800	17.4	.6	B41796
Hyde	McKay	M		1	2,910+	-	-	14.5	.7	C21558
National Coal Company	No. 1	T	Run-of-mine		2,530	2,680	2,780	19.0	.5	B99848
Enumclaw										
Green River	Kummer No. 4	M		1	2,380	2,530	2,760	21.4	.3	C21381
Do.	do.	T	3-1/4-inch by 0 (W)		2,420	2,490	2,730	17.4	.3	C60717

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WASHINGTON (Con.)										
King County (Con.)										
Issaquah										
Bianco	Bagley	T	2-3/4-inch lump		2,860	2,940	2,980	15.8	.5	A79255
Do.	do.	T	2-3/4- by 1-1/4-inch		2,940	3,000+	-	19.8	.5	A79256
Do.	do.	T	1-1/4- by 1/2-inch		2,890	3,000	3,010+	15.1	.5	A79257
Do.	do.	T	1/2-inch by 0		2,890	2,960	2,990	13.5	.6	A79258
Black Nugget	Black Nugget	M		1	2,280	2,440	2,870	14.1	1.7	B32024
Grand Ridge	No. 9	M		1	2,550	2,690	2,850	18.3	.5	B32023
Harris	Dolly Varden	T	1-1/2-inch lump		2,550	2,660	2,780	10.3	.8	A54536
Do.	do.	T	1-1/2- by 1/4-inch		2,550	2,660	2,780	12.0	.7	A54537
Do.	do.	T	1/4-inch by 0		2,440	2,650	2,810	10.2	.8	A54538
Do.	do.	M		2	2,630	2,750	2,870	12.8	.7	A56245 and A56246
Harris No. 2	Jones	M		1	2,850	2,910+	-	17.2	.7	B75318
Issaquah	Lower Bagley	T	Run-of-mine		2,810	2,890	2,910+	20.5	.4	B96353
Labee	Dolly Varden	M		1	2,570	2,800	2,860	16.2	1.6	D19163
Newcastle Queen	Bagley	T	3- by 1-1/2-inch (W)		2,830	2,920	2,930+	23.2	.7	B24979
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,730	2,860	2,900+	20.2	.7	B24866
Queen No. 1	May Creek	M		3	2,360	2,390	2,720	12.4	.8	B40758 to B40760
Do.	Muldoon	M		1	2,720	2,780	2,830	21.0	.5	D18545
Reynolds Prospect	Reynolds	M		1	2,730	2,770	2,800	15.0	.4	A57243
Tiger Mountain	No. 1	M		1	2,110	2,210	2,430	15.3	.2	B33050
Do.	do.	T	3-1/2- by 5/8-inch (W)		2,220	2,280	2,540	12.9	.3	B33223
Do.	do.	T	5/8- by 1/4-inch (W)		2,210	2,280	2,590	12.8	.3	B33201
Do.	do.	T	1/4-inch by 0 (W)		2,240	2,300	2,640	13.7	.4	B33222
Newcastle										
New Castle	No. 4	M		3	2,150	2,200	2,320	11.0	.7	A53499 to A53501
Do.	Muldoon	M		3	2,460	2,650	2,890+(1) 2,820 (2)	14.5	.6	A53503 to A53505
Do.	Lower Bagley	M		3	2,720	2,800	2,850	17.2	.5	A53507 to A53509
Do.	May Creek	M		1	2,310	2,530	2,790	13.3	1.2	A53511
Do.	Upper Bagley	M		1	2,850	2,900	2,910+	18.0	.4	A53512
Do.	Bagley	T	3-1/2-inch lump		2,710	2,790	2,910+	11.8	.4	B96398
Do.	do.	T	3-1/2- by 1-inch (W)		2,790	2,910+	-	16.2	.4	B96399
Do.	do.	T	1- by 1/4-inch (W)		2,730	2,850	2,910+	13.6	.4	B96400
Do.	do.	T	1/4-inch by 0 (W)		2,690	2,740	2,850	13.6	.4	B96401
Do.	do.	T	Run-of-mine		2,610	2,750	2,850	24.6	.3	B96402
Old New Castle	Upper Split No. 3	T	5/32-inch by 0		2,540	2,690	2,910+	12.3	.5	B33110
Palmer										
Elk No. 3	Dutch	M		1	2,730	2,840	2,910+	33.9	.6	D1342
Do.	"A"	T	2-inch lump		2,490	2,600	2,800	22.4	.8	A98497
Do.	do.	T	2- by 1-inch (W)		2,810	2,860	2,930+	23.3	.8	A98498
Do.	do.	T	1-inch by 0 (W)		2,790	2,840	2,890	18.5	.7	A98499
Morris	Morris	T	Run-of-mine (W)		2,570	2,720	2,790	18.0	.9	A56454
Do.	do.	M		2	2,460	2,610	2,750	17.8	.8	A56570 and A56571
Occidental	No. 3	T	3- by 1-inch		2,640	2,760	2,810	21.1	.7	A54133
Do.	do.	T	2-inch lump		2,270	2,390	2,580	15.1	1.2	A54134
Do.	do.	T	1-inch by 0		2,300	2,530	2,650	16.7	1.1	A54135

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Do.	No. 1	M		1	2,390	2,490	2,590	13.1	.7	B870
Do.	No. 6	M		1	-	2,910+	-	20.8	.6	B9158
Ravensdale										
Dale	No. 7	M		1	2,270	2,320	2,480	8.0	.7	A54142
Danville	Frazier	T	2-inch lump		2,460	2,580	2,710	11.4	.7	A54295
Do.	do.	T	2- by 1-1/8-inch		2,540	2,640	2,780	13.3	.7	A54297
Do.	do.	T	1-1/8- by 3/8-inch		2,470	2,620	2,720	12.1	.6	A54298
Do.	do.	T	7/8- by 3/8-inch (W)		2,520	2,800	2,870	12.5	.6	B51603
Do.	No. 1	T	6- by 1-1/2-inch (W)		2,730	2,860	2,910+	10.2	.4	D65014
Do.	do.	T	1-1/2- by 3/32-inch (W)		2,800	2,850	2,890	10.8	.6	D90363
Do.	Six-foot	M		1	2,360	2,420	2,540	10.9	.5	D56374
Do.	Eight-foot	M		1	2,710	2,750	2,810	14.1	.8	D90541
Do.	Danville No. 4	M		1	2,730	2,840	2,910+	13.5	1.2	C22080
Do.	Frazier	M		2	2,560	2,690	2,740	10.4	.7	B51279 and B51280
McKay	McKay	M		3	2,380	2,430	2,590	3.4	.4	A98378 to A98380
Do.	do.	T	3-1/2-inch lump		2,100	2,140	2,300	4.7	.7	B95540
Do.	do.	T	3-1/2- by 1-1/4-inch (W)		2,060	2,100	2,310	5.4	.7	B95541
Do.	do.	T	1-1/4- by 1-inch (W)		2,140	2,190	2,340	5.6	.6	B95542
Do.	do.	T	1- by 3/32-inch (W)		2,260	2,320	2,520	6.1	.6	B95543
Do.	do.	T	3/32-inch by 0 (W)		2,320	2,380	2,520	5.6	.5	B95544
Do.	do.	T	3/32-inch by 0		2,240	2,290	2,490	11.7	.8	B95545
Ravensdale	No. 4	T	4- by 3/32-inch (W)		2,670	2,700	2,750	12.1	.5	E1657
Do.	do.	T	3/4- by 3/8-inch (W)		2,760	2,850	2,910+	16.2	1.0	E37814
Renton										
Cavanaugh	No. 2	M		1	2,160	2,300	2,560	7.2	1.0	A56974
Cedar Mountain	Cedar Mountain No. 1	T	1-3/4- by 3/4-inch		2,360	2,500	2,810	15.5	.3	B35160
Do.	do.	T	3/4- by 1/4-inch		2,600	2,690	2,850	16.7	.5	B35007
Coal Creek Prospect	No. 3-1/2	M		1	2,180	2,420	2,470	15.3	1.3	D65685
Diamond	Newenham	M		1	1,990	2,110	2,280	7.3	1.8	A56975
Jones Prospect	-	M		1	2,310	2,490	2,680	6.7	.8	B78372
New Black Diamond	No. 2	M		1	2,790	2,820	2,840	16.4	.5	A53654
Do.	Jones	M		5	2,490	2,580	2,760	12.5	.4	A53655 to A53659
Do.	do.	T	4- by 1-inch		2,460	2,600	2,810	13.8	.5	B63197
Do.	do.	T	3-3/8- by 1-inch		2,480	2,610	2,830	13.5	.5	B63198
Newcastle	do.	M		1	2,730	2,800	2,870	10.9	.7	D18546
New Lake Young	No. 2	M		1	2,220	2,410	2,820	9.6	1.6	B32025
Do.	do.	T	3-1/2- by 7/8-inch		2,220	2,280	2,810	8.2	1.5	B32026
Do.	do.	T	7/8- by 1/4-inch		2,370	2,500	2,780	12.3	1.5	B32027
Do.	do.	T	1/4- by 1/8-inch		2,370	2,460	2,730	11.9	1.4	B32028
Renton	No. 1	M		1	2,320	2,370	2,410	11.5	.7	A53870
Do.	No. 2	M		1	2,380	2,510	2,670	15.0	.6	A53871
Do.	No. 3	M		1	2,280	2,370	2,540	7.5	.6	A53872
Renton-Sunbeam	Sunbeam	M		3	2,160	2,250	2,410	8.0	1.2	A50915 to A50917
Springbrook No. 3	Springbrook	M		1	2,670	2,750	2,910	6.5	.4	B39331
West Coast	Cedar Mountain No. 1	T	1-1/2-inch lump		2,290	2,460	2,760	12.9	.5	A52431
Do.	do.	T	1-1/2- by 1/2-inch		2,340	2,420	2,790	13.5	.5	A52432
Do.	do.	T	1/2-inch by 0		2,250	2,530	2,760	14.1	.4	A52698
Do.	do.	M		3	2,360	2,500	2,680	12.0	.4	A53513 to A53515
Selleck										
Big Four Prospect	Upper Elk	M		1	-	2,910+	-	17.1	.5	B35175
Elk	Elk	M		1	2,230	2,370	2,510	16.1	.5	A7036
Do.	Elk No. 2	M		1	2,400	2,460	2,540	15.2	.6	A54152
Elk No. 2 Prospect	-	M		1	2,570	2,680	2,850	17.9	.8	B36492
Kangley	Big Seam	M		1	2,360	2,420	2,480	12.7	.9	A57244
Taylor										
Taylor	-	M		1	-	2,910+	-	18.0	.5	B39391
Kittitas County										
Lakedale										
Roslyn No. 3	Roslyn No. 6	M		1	2,200	2,360	2,540	13.8	.5	A52144

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WASHINGTON (Con.)										
Kittitas County (Con.)										
Cle Elum										
Cle Elum No. 1	Roslyn	M		1	2,510	2,750	2,810	13.3	.5	A52143
Cle Elum No. 7	do.	T	Run-of-mine		2,300	2,420	2,610	16.0	.4	A51656
Rothlisberger	No. 1	M		1	2,270	2,320	2,420	13.4	.4	A52002
Do.	do.	T	Run-of-mine		2,330	2,500	2,650	20.5	.4	A52003
Ronald										
Blue Flame	No. 7	M		1	2,340	2,420	2,810	9.1	.4	A98682
Jonesville No. 3	Roslyn No. 3	M		2	2,750	2,780	2,910+	14.9	.6	B39154 and B39155
Jonesville No. 4	Roslyn	T	Run-of-mine		2,610	2,670	2,780	23.4	.4	B97524
Lakedale	Roslyn No. 8	M		1	2,790	2,860	2,920+	14.3	.4	B5676
Northwestern Improvement Company No. 3	Roslyn	M		6	2,120	2,290	2,380	11.6	.5	A51003 to A51008
Do.	Roslyn No. 3	M		1	2,780	2,840	2,880	14.7	.6	A52146
Do.	Roslyn	T	1-5/8- by 3/16-inch (W)		2,250	2,350	2,650	12.0	.4	E54861
Do.	do.	T	1-5/8-inch by 0 (W)		2,310	2,380	2,520	12.4	.4	E54860
Do.	do.	T	3/16-inch by 0 (W)		2,250	2,390	2,630	15.4	.4	E54862
Ronald No. 2	Big Bed	M		1	2,770	2,860	2,910+	19.1	.3	B32487
Do.	Roslyn No. 3	M		1	2,260	2,310	2,790	11.3	.5	B39171
Do.	Big Bed	T	2-1/2- by 1-5/8-inch (W)		2,910+	-	-	18.4	.3	B97299
Do.	do.	T	1-5/8- by 3/4-inch (W)		2,910+	-	-	16.2	.3	B97300
Do.	do.	T	3/4- by 1/4-inch (W)		2,910	2,910+	-	11.8	.3	B97301
Do.	do.	T	1-5/8-inch by 0 (W)		2,850	2,910+	-	15.3	.3	B97302
Do.	do.	T	1/4-inch by 0		2,570	2,660	2,820	16.3	.3	B97303
Do.	do.	T	Run-of-mine		2,690	2,740	2,910	22.4	.3	B97304
Roslyn No. 3	Roslyn	M		3	2,240	2,310	2,540	12.6	.3	B32488, B32616, and B32617
Do.	do.	T	3/4- by 3/16-inch		2,310	2,360	2,540	10.6	.4	D41275
Do.	do.	T	3/16-inch by 0		2,310	2,360	2,570	12.6	.3	D41276
Do.	do.	T	1-5/8-inch by 0		2,310	2,360	2,520	12.1	.4	E5243
Roslyn Cascade No. 1	do.	M		2	2,370	2,440	2,710	12.9	.4	B32481 and B32482
Do.	Roslyn No. 6	M		1	2,420	2,550	2,740	16.8	.4	A52145
Do.	Roslyn	T	2-1/2-inch lump		2,350	2,410	2,490	16.2	.5	A51991
Do.	do.	T	2-1/2- by 1-1/2-inch		2,340	2,500	2,600	17.5	.4	A51992
Do.	do.	T	1-1/2-inch by 0		2,410	2,540	2,680	15.2	.4	A51993
Do.	do.	T	Run-of-mine		2,330	2,410	2,510	16.0	.5	A51994
Do.	do.	T	3- by 1-5/8-inch (W)		2,790	2,840	2,910+	11.7	.3	B34432
Do.	do.	T	1-5/8- by 3/4-inch (W)		2,730	2,790	2,900+	10.5	.4	B34433
Do.	do.	T	1-5/8-inch by 0 (W)		2,710	2,780	2,900+	10.5	.4	B34434
Roslyn Cascade No. 3	Big Seam	M		3	2,540	2,660	2,750	14.4	.3	A52139 to A52141
Do.	do.	T	1-1/2-inch lump		2,610	2,710	2,790	19.9	.4	A51995
Do.	do.	T	1-1/2-inch by 0		2,650	2,740	2,840	18.5	.3	A51996
Do.	do.	T	Run-of-mine		2,720	2,780	2,820	19.1	.3	A51997
Roslyn Cascade No. 4	No. 6	M		2	2,450	2,500	2,710	16.9	.5	B32484 and B32485
Do.	do.	T	3- by 1-5/8-inch (W)		2,480	2,520	2,650	18.5	.4	B37693
Do.	do.	T	1-5/8- by 3/4-inch (W)		2,530	2,580	2,790	17.4	.4	B37694
Do.	do.	T	3/4-inch by 0 (W)		2,620	2,730	2,900	14.1	.4	B37695

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Roslyn										
Northwestern Improvement Company No. 5	Roslyn	M		6	2,190	2,300	2,440	13.7	.5	A51498 to A51503
Do.	do.	T	4-inch lump		2,190	2,310	2,380	10.6	.4	A51505
Do.	do.	T	4-inch by 0		2,180	2,300	2,370	17.5	.4	A51506
Northwestern Improvement Company No. 9	do.	T	1-5/8- by 3/16-inch		2,200	2,250	2,520	12.4	.5	E55139
Do.	do.	T	1-5/8-inch by 0		2,240	2,330	2,490	13.6	.4	E55138
Do.	do.	T	3/16-inch by 0		2,170	2,320	2,500	14.3	.5	E55140
Do.	Big Bed	M		1	2,830	2,890	2,910+	16.8	.3	B10068
Roslyn No. 5	Roslyn	M		1	2,340	2,400	2,490	12.8	.4	B56536
Do.	do.	T	3-inch lump		2,190	2,260	2,470	12.6	.5	B97090
Do.	do.	T	3- by 1-5/8-inch (W)		2,200	2,230	2,500	13.9	.5	B97091
Do.	do.	T	1-5/8- by 3/4-inch (W)		2,190	2,360	2,590	15.0	.4	B97092
Do.	do.	T	3/4- by 1/4-inch (W)		2,190	2,420	2,550	12.0	.4	B97093
Do.	do.	T	1-5/8-inch by 0 (W)		2,230	2,310	2,480	18.0	.5	B97094
Do.	do.	T	1/4-inch by 0		2,260	2,310	2,470	22.2	.4	B97095
Do.	do.	T	3-inch by 0		2,150	2,230	2,400	26.3	.4	B97096
Roslyn No. 8	do.	T	Run-of-mine		2,320	2,410	2,580	15.4	.5	A51658
Do.	do.	T	2-1/2-inch lump		2,350	2,420	2,490	16.6	.4	A51657
Do.	do.	T	2-1/2-inch by 0		2,320	2,450	2,630	15.0	.4	A51659
Do.	do.	M		3	2,290	2,370	2,500	11.6	.5	A51998 to A52000
Roslyn No. 9	do.	M		2	2,170	2,290	2,430	13.2	.4	A51668 and A51669
Do.	do.	T	1-5/8-inch by 0 (W)		2,260	2,330	2,540	13.3	.3	C97935
Do.	do.	T	3/4- by 3/16-inch		2,310	2,360	2,520	11.2	.4	D41274
Lewis County										
Centralia										
Belle Slope	No. 1	M		2	2,370	2,430	2,620	13.3	.6	C23747 and C23748
Black Badger	-	M		1	2,360	2,420	2,540	11.8	1.6	D30894
Black Prince No. 2	Parkin	M		1	2,300	2,400	2,580	7.1	.4	A56243
Columbia	-	M		1	2,310	2,360	2,570	17.1	1.5	D3092
Creno Prospect	-	M		1	2,130	2,260	2,340	14.8	1.1	D30868
Fords Prairie No. 1	Foron	M		3	2,110	2,250	2,330	9.6	.7	A54764 to A54766
Do.	do.	T	4-inch lump		2,300	2,380	2,450	7.9	.6	A55344
Do.	do.	T	4- by 1-1/8-inch		2,050	2,140	2,350	10.4	.7	A55345
Do.	do.	T	1-1/8-inch by 0		2,140	2,260	2,420	11.9	.8	A55346
Golden Glow	-	T	3-inch lump		2,420	2,460	2,510	8.2	1.0	B93899
Do.	-	T	3- by 1-1/4-inch		2,310	2,350	2,400	9.7	1.0	B93900
Do.	-	T	1-1/4- by 3/8-inch		2,050	2,090	2,140	11.0	.9	B93901
Do.	-	T	3/8-inch by 0		2,150	2,220	2,450	16.1	1.0	B93902
Kostick No. 1 Prospect	Lower Thompson	M		1	2,260	2,360	2,450	16.2	2.0	D30866
Kostick No. 2 Prospect	Smith	M		1	2,180	2,260	2,420	10.8	1.5	D30867
Larabee Outcrop	Upper Thompson	M		1	2,620	2,700	2,780	18.0	1.4	D33783
Lincoln Prospect	-	M		1	2,060	2,180	2,460	11.2	1.1	C1419
Martin	Foron	M		1	1,970	2,210	2,310	11.4	1.3	D8255
Monarch	Monarch	T	3-inch lump		2,280	2,350	2,450	6.9	.8	A55733
Do.	do.	T	3- by 1-1/4-inch		2,040	2,130	2,260	10.6	.9	A55734
Do.	do.	T	1-1/4- by 5/16-inch		2,200	2,280	2,450	16.2	.8	A55735
Do.	do.	M		2	2,110	2,190	2,250	9.3	1.0	A55755 and A55756
Do.	Foron	M		1	2,050	2,130	2,310	11.7	.8	D3090
Do.	Monarch No. 2	M		1	2,310	2,360	2,470	12.3	.6	D3091
Monarch No. 1	Monarch No. 1	T	3-inch lump		2,040	2,090	2,160	10.6	1.2	B93105
Do.	do.	T	Run-of-mine		2,100	2,230	2,310	16.2	1.5	B93106
Do.	do.	T	1-3/4- by 1-inch (W)		2,090	2,190	2,270	14.3	1.4	B93107
Do.	do.	T	1- by 3/8-inch (W)		2,070	2,130	2,200	13.4	1.3	B93108
Do.	do.	T	3/8-inch by 0 (W)		2,020	2,080	2,170	13.6	1.5	B93109
Morris Prospect	-	M		1	2,050	2,140	2,420	18.3	5.4	B93658
Non-Pareil	Non-Pareil	M		2	2,070	2,130	2,350	10.6	1.0	A56016 and A56017
Do.	do.	T	3-1/2-inch lump		2,140	2,190	2,330	9.8	.9	B99524
Do.	do.	T	3-1/2- by 1-1/2-inch (W)		2,300	2,350	2,570	14.6	.8	B99525

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WASHINGTON (Con.)										
Lewis County (Con.)										
Centralia										
Non-Pareil	Non-Pareil	T	1-1/2- by 3/8-inch (W)		2,330	2,440	2,730	14.3	.7	B99526
Do.	do.	T	3/8-inch by 0 (W)		2,370	2,450	2,580	15.3	.8	B99527
Salzer Valley King	Salzer Valley	T	5-inch lump		2,050	2,100	2,160	11.1	3.7	A55347
Do.	do.	T	5- by 1-1/2-inch		2,030	2,120	2,270	10.9	2.7	A55348
Do.	do.	T	1-1/2- by 1/2-inch		2,080	2,280	2,360	12.6	2.6	A55349
Smith No. 3	Smith No. 1	M		1	2,250	2,330	2,470	16.2	2.0	A56244
Stoker No. 1	-	T	1-3/4- by 1/4-inch		2,280	2,360	2,540	11.0	.6	B37125
Sunshine No. 1	Sunshine No. 1	M		3	2,090	2,150	2,220	14.2	2.8	A55517 to A55519
Do.	do.	T	5-inch lump		2,090	2,150	2,280	15.9	3.9	A55521
Do.	do.	T	5- by 1-1/2-inch		2,160	2,280	2,530	18.8	3.5	A55522
Do.	do.	T	1-1/2- by 1/2-inch		2,100	2,220	2,380	18.0	3.5	A55523
Do.	do.	T	1/2-inch by 0		2,100	2,170	2,380	18.1	3.1	A55524
Wabash	No. 4	M		3	2,210	2,290	2,380	8.7	1.1	A55350 to A55352
Chehalis										
Newaukum Prospect	-	M		1	2,310	2,370	2,530	21.0	1.1	C64088
Reliance No. 1	Reliance No. 1	T	3-inch lump		2,070	2,130	2,170	10.4	.8	A55736
Do.	do.	T	3- by 1-1/2-inch		2,080	2,130	2,240	12.4	.9	A55737
Do.	do.	T	1-1/2-inch by 0		2,150	2,270	2,310	13.1	1.0	A55738
Do.	do.	M		3	2,050	2,110	2,210	12.1	1.0	A55758 to A55760
Reliance No. 2	do.	M		3	2,210	2,320	2,580	11.9	1.0	B33029 to B33031
Galvin										
Columbia Collieries	Columbia	T	1-inch lump		2,300	2,340	2,370	11.5	1.0	A55739
Do.	do.	T	1-inch by 0		2,110	2,230	2,450	16.3	1.0	A55740
Do.	do.	M		2	2,380	2,410	2,570	10.5	1.2	A55762 and A55763
Mineral										
Sunburst	No. 2	M		1	2,320	2,370	2,420	17.3	.7	B96595
Morton										
Atlas	Hi-Carbon	M		1	2,310	2,420	2,680	22.1	1.3	C28183
Crystal No. 1	No. 3	M		1	2,310	2,390	2,530	23.8	.7	A56494
Hi-Carbon	Hi-Carbon	M		1	2,380	2,570	2,690	20.8	.9	A68405
Majestic No. 1	Majestic	T	1-1/4-inch lump		2,840	2,880	2,890+	24.0	.5	A56451
Do.	do.	T	1-1/4- by 3/4-inch		2,820	2,860	2,890+	22.8	.4	A56452
Do.	do.	T	3/4-inch by 0		2,760	2,850	2,890+	16.7	.4	A56453
Onalaska										
Myer Prospect	-	M		1	2,490	2,540	2,640	18.8	.8	B93644
Packwood										
Anthracite Coal Corp.	Primrose	M		1	2,580	2,690	2,760	24.5	.5	B8947
Pierce County										
Buckley										
Black Carbon Prospect	No. 4	M		1	2,780	2,820	2,890	21.9	.6	A56769
Do.	No. 10	M		1	2,820	2,900	2,920+	19.0	.4	A56770
Burnett										
Burnett	No. 2	M		2	2,040	2,190	2,390	9.9	1.8	90604 and 90605
Do.	No. 2 1/2	M		2	2,040	2,270	2,590	10.0	2.0	90601 and 90603

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Do.	No. 3	M		2	2,370	2,470	2,680	13.6	.5	90597 and 90598
Do.	No. 4	M		2	2,430	2,570	-	14.7	.6	90599 and 90600
Carbonado										
Carbonado	Morgan	M		3	2,560	2,680	2,790	18.9	.5	A51187 to A51189
Do.	No. 4	M		3	2,580	2,680	2,830	13.7	.4	A51191 to A51193
Do.	No. 8	M		3	2,310	2,520	2,690	15.5	.5	A51195 to A51197
Strain-Carbonado	Miller	M		3	2,310	2,370	2,690	9.1	.6	B34687 to B34689
Do.	do.	T	5/8- by 1/2-inch		2,300	2,420	2,630	20.9	.8	B34791
Do.	do.	T	1/2-inch by 0		2,360	2,480	2,690	16.8	.8	B34790
Fairfax										
Fairfax	No. 1	M		1	2,310	2,450	2,790	12.3	.7	A56655
Do.	No. 2	M		3	2,460	2,540	2,670	13.4	.4	A56644 to A56646
Do.	No. 3	M		3	2,320	2,380	2,630	9.2	.6	A56648 to A56650
Do.	No. 4	M		1	2,200	2,370	2,700	11.7	.6	A56656
Do.	No. 5	M		2	2,330	2,380	2,610	11.3	.5	A56652 and A56653
Issaquah (King County)										
Harris	Dolly Varden	T	3/4- by 3/16-inch (W)		-	2,880+	-	16.7	.9	B34909
Orting										
Crocker	Crocker	M		1	2,250	2,380	2,570	13.8	.7	A56771
Wilkeson										
Apex	No. 4	M		2	2,180	2,230	2,640	9.7	.9	B38993 and B38994
Do.	do.	T	1-1/4-inch by 0		2,180	2,280	2,750	12.1	1.0	B39036
Bartoy	No. 2	M		3	2,550 (2)	2,910+(1)	-	14.1	.6	B53204 to B53206
						2,620 (2)	2,740 (2)			
Do.	No. 3	M		1	2,730	2,780	2,890	16.2	.5	B7238
Bonato	No. 5	M		1	2,420	2,710	2,910+	8.7	.6	B7295
Champion	Champion	M		1	2,520	2,650	2,750	22.0	.8	C54014
Commercial No. 3	No. 5	M		1	2,280	2,350	2,700	7.8	1.3	B7239
East Miller	No. 5	T	1-5/8-inch lump		2,290	2,330	2,440	14.4	1.6	B95270
Do.	do.	T	1-5/8-inch by 0		2,220	2,310	2,570	18.6	1.7	B95271
Gale Creek	No. 1	M		1	2,180	2,230	2,560	7.2	.7	B38930
Skookum	No. 6	M		2	2,730	2,790	2,880	16.4	.6	B41923 and B41924
Do.	No. 7	M		1	2,290	2,530	2,790	10.9	.5	B41922
Sparton	Champion	M		1	2,420	2,590	2,730	14.6	.8	D31102
Wilkeson	Wilkeson No. 1	M		3	2,260	2,430	2,630	15.2	2.0	A52877 to A52879
Do.	Wilkeson No. 2	M		1	2,630	2,680	2,730	13.7	.5	A52876
Do.	Wilkeson No. 3	M		3	2,400	2,510	2,630	16.7	.4	A52881 to A52883
Do.	Wilkeson No. 4	M		3	2,170	2,320	2,490	12.0	1.0	A52699 to A52701
Do.	Wilkeson No. 7	M		4	2,440	2,500	2,700	11.4	.6	A52703 to A52705 and A52875
Do.	Wilkeson No. 4	T	2-inch lump		2,210	2,540	2,710	18.1	1.0	B95268
Do.	do.	T	2-inch by 0		2,400	2,740	2,890	16.8	.9	B95269
Wilkeson-Miller	No. 5	M		2	2,210	2,360	2,690	6.8	1.1	B53925 and B53926
Wilkeson-Wingate	No. 4	M		2	2,160	2,250	2,430	18.1	2.6	D26934 and D26935
Do.	do.	T	1-5/8-inch by 0		2,200	2,500	2,740	15.1	1.5	B34910
<u>Thurston County</u>										
Bucoda										
Boxer	-	M		1	1,990	2,090	2,310	16.6	3.6	D30865
Bucoda No. 1	Bagley	M		3	2,210	2,350	2,490	11.9	.5	A54768 to A54770
Do.	do.	T	3-inch lump		2,140	2,200	2,350	11.0	.5	A54894
Do.	do.	T	3- by 1-1/2-inch		2,290	2,360	2,430	13.5	.5	A54895
Do.	do.	T	1-1/2- by 1/4-inch		2,260	2,330	2,420	17.4	.5	A54896
D. & F. Prospect	-	M		1	2,050	2,420	2,550	16.2	2.0	C96368
Gordon	-	M		1	1,920	1,970	2,080	17.1	5.9	D1995
Meeks Prospect	-	M		1	2,260	2,310	2,590	16.9	.5	D1994
Mutual Prospect	No. 1	M		1	2,310	2,370	2,580	10.4	.6	C26026
Do.	No. 3	M		1	2,070	2,120	2,330	15.4	3.0	C26029
Do.	No. 4	M		1	2,310	2,400	2,580	13.6	.5	C26030
Penn-Bucoda	Penn Bucoda	T	Run-of-mine		2,310	2,360	2,570	16.3	.5	C80364
Tono Prospect Outcrop	-	M		1	1,920	2,030	2,310	12.4	2.5	D30869

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WASHINGTON (Con.)										
Thurston County (Con.)										
Centralia (Lewis County)										
Columbia	-	M		1	2,180	2,300	2,460	13.6	1.2	C1418
Wabash	No. 4	T	3-inch lump		2,330	2,480	2,520	7.6	.8	A54897
Do.	do.	T	3- by 1-1/2-inch		2,060	2,170	2,280	10.2	1.3	A54898
Do.	do.	T	1-1/2- by 3/4-inch		2,080	2,160	2,310	10.7	1.1	A54899
Do.	do.	T	3/4-inch by 0		2,320	2,420	2,650	15.2	.8	A54900
Tenino										
D. & F. No. 1	-	T	3-inch lump		2,010	2,140	2,320	19.3	5.1	B93558
Do.	-	T	3- by 1-1/2-inch		2,060	2,170	2,320	21.5	4.3	B93559
Do.	-	T	1-1/2-inch by 0		2,100	2,250	2,500	23.8	4.0	B93560
Do.	-	T	1-1/2-inch by 0 (W)		2,080	2,210	2,460	21.2	3.9	B93561
D. & F. No. 2	-	T	3-inch lump		2,090	2,160	2,340	21.6	5.2	C1243
Do.	-	T	3- by 1-1/2-inch		2,090	2,160	2,370	24.4	4.6	C1244
Do.	-	T	1-1/2-inch by 0 (W)		2,150	2,270	2,370	21.0	3.8	C1245
Pleasant Hill	Black Bear	M		1	2,490	2,600	2,700	30.4	3.2	A56242
Tono										
Tono	Tono No. 1	T	5-inch lump		2,260	2,380	2,480	8.8	.7	A55118
Do.	do.	T	5-inch by 0		2,320	2,420	2,490	12.6	.7	A55119
Tono No. 1	do.	M		3	2,290	2,350	2,620	10.0	.5	B27317 to B27319
Do.	do.	T	3-inch lump		2,380	2,500	2,570	8.6	.5	B94620
Do.	do.	T	3- by 1-3/4-inch		2,500	2,520	2,640	13.0	.5	B94621
Do.	do.	T	1-3/4- by 1/4-inch		2,510	2,540	2,640	11.1	.5	B94622
Do.	do.	T	1-3/4-inch by 0		2,520	2,560	2,750	15.3	.6	B94623
Whatcom County										
Bellingham										
Bellingham	Bellingham	M		4	2,400	2,450	2,570	18.3	.3	D8250 to D8253
Do.	do.	T	4- by 2-inch (W)		2,460	2,510	2,680	19.9	.3	D19111
Do.	do.	T	4- by 1-5/8-inch (W)		2,520	2,600	2,770	17.7	.3	E13233
Do.	do.	T	1-5/8-inch by 0 (W)		2,550	2,630	2,720	17.3	.4	E13234
Glen Echo	No. 1	M		2	2,490	2,520	2,640	20.3	.4	B32907 and B32908
Do.	do.	T	4-inch lump		2,220	2,290	2,460	12.1	.4	B97917
Do.	do.	T	4- by 2-inch (W)		2,430	2,450	2,690	18.7	.4	B97918
Do.	do.	T	2- by 1-inch (W)		2,450	2,470	2,690	21.3	.4	B97919
Do.	do.	T	1-inch by 0 (W)		2,490	2,520	2,760	19.9	.4	B97920
WEST VIRGINIA										
Barbour County										
Arden										
Burtner No. 5	Upper Freeport	T	Run-of-mine		2,130	2,390	2,510	15.0	3.2	A16288
Belington										
Belington	Kittanning	T	do.		2,180	2,420	2,570	10.7	2.3	E43559
Junior No. 2	Lower Kittanning	T	do.		2,880	2,910+	-	13.4	1.2	E78982
Nestorville	Bakerstown	T	do.		2,010	2,190	2,440	9.4	1.7	E6616
Berryburg										
Barbour	Pittsburgh	T	do.		2,000	2,170	2,420	9.2	3.2	B88138

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Do.	do.	T	2-inch lump		1,970	2,040	2,210	9.8	3.7	D40990
Do.	do.	T	2- by 3/4-inch		1,970	2,050	2,310	9.3	3.2	D40991
Do.	do.	T	3/4-inch by 0		1,970	2,050	2,360	8.9	3.2	D40992
Berryburg No. 1	do.	T	5- by 2-inch		2,020	2,130	2,400	10.8	3.8	E64156
Do.	do.	T	2-inch by 0		2,000	2,090	2,380	9.2	3.6	E64157
Jay Arr	do.	T	Run-of-mine		1,950	2,180	2,430	8.6	3.4	D42791
Do.	do.	T	1-1/4- by 3/4-inch		1,920	2,080	2,470	10.3	3.5	D45916
Do.	do.	T	3/4-inch by 0		1,900	2,030	2,470	9.2	3.5	D45917
Brownton										
Brown No. 2	do.	T	Run-of-mine		2,080	2,200	2,410	9.1	2.2	B85573
Glen Cambria	do.	T	6-inch lump		2,010	2,100	2,460	10.8	4.0	B90248
Do.	do.	T	6- by 1-3/4-inch		2,010	2,100	2,450	11.5	4.0	B90249
Do.	do.	T	5/8-inch by 0		2,010	2,090	2,460	10.4	3.8	B90250
Glen Cambria No. 1	do.	T	2-inch lump		2,050	2,210	2,410	10.0	2.7	F16603
Do.	do.	T	2-inch by 0		2,000	2,210	2,350	10.4	2.7	F16604
Hartley	do.	T	Run-of-mine		1,920	2,340	2,500	7.6	2.2	B22097
Hartley-Pepper	do.	T	do.		2,080	2,160	2,370	8.7	2.5	E6615
Henshaw	do.	T	do.		2,030	2,250	2,500	8.8	2.5	B22094
Do.	do.	T	do.		2,010	2,290	2,450	10.4	3.5	F16503
Kern No. 2	do.	T	5- by 2-inch		1,910	2,040	2,310	16.6	6.2	E15077
Do.	do.	T	2-inch by 0		1,940	2,040	2,180	9.5	4.1	E15078
Do.	Redstone	T	Run-of-mine		1,990	2,350	2,520	9.7	2.6	E67843
Pepper	Pittsburgh	T	1-1/4-inch lump		2,030	2,150	2,440	11.9	4.8	D47823
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,290	11.0	4.0	D47824
Taggart	do.	T	Run-of-mine		2,040	2,310	2,480	10.5	2.7	B85408
Buckhannon (Upshur County)										
Electro	do.	T	2-inch lump		1,970	2,130	2,440	8.1	3.0	E44138
Do.	do.	T	2- by 1-1/4-inch		1,960	2,060	2,420	8.7	3.2	E44139
Do.	do.	T	1-1/4- by 1/2-inch		1,990	2,090	2,360	8.8	3.1	E44140
Do.	do.	T	1/2-inch by 0		2,010	2,090	2,320	8.7	3.1	E44141
Century										
Century No. 1	Redstone	T	Run-of-mine		2,040	2,180	2,490	7.4	1.9	B43090
Do.	do.	T	2-inch lump		2,050	2,180	2,420	7.6	2.2	C96085
Do.	do.	T	2-inch by 0		2,100	2,180	2,360	8.1	2.4	C96086
Erie No. 4	Pittsburgh	T	5- by 1-1/4-inch		1,940	2,080	2,420	10.7	4.2	D81757
Do.	do.	T	1-1/4- by 3/4-inch		1,920	2,090	2,390	9.5	3.6	D81758
Do.	do.	T	3/4-inch by 0		2,000	2,060	2,360	11.0	3.9	D81759
Do.	Redstone	T	5- by 1-1/4-inch		2,360	2,500	2,620	8.1	1.6	D81760
Do.	do.	T	1-1/4- by 3/4-inch		2,360	2,460	2,610	9.5	1.6	D81761
Do.	do.	T	3/4-inch by 0		2,360	2,440	2,510	8.6	1.4	D81762
Roberta No. 2	Pittsburgh	T	3- by 1-1/4-inch		1,900	2,000	2,360	12.5	5.1	D40254
Do.	do.	T	1-1/4-inch by 0		2,050	2,080	2,420	9.7	4.0	D40255
Galloway										
Craigmore	do.	T	6- by 2-inch		2,000	2,160	2,470	9.4	3.7	F8617
Do.	do.	T	2-inch by 0		1,940	2,250	2,520	9.3	3.3	F8618
Do.	Redstone	T	Run-of-mine		2,010	2,240	2,430	12.5	2.9	F10569
Galloway	Pittsburgh	T	6- by 1-1/4-inch		2,020	2,100	2,390	10.7	3.7	D46150
Do.	do.	T	1-1/4- by 3/8-inch		2,130	2,180	2,540	7.2	2.5	D46151
Do.	do.	T	1-1/4-inch by 0		2,080	2,130	2,360	9.3	3.0	D46152
Do.	do.	T	3/8-inch by 0		2,090	2,170	2,360	11.0	3.0	D46153
Galloway No. 2	do.	T	3/4-inch lump		2,020	2,060	2,310	11.6	4.6	B88342
Do.	do.	T	3/4-inch by 0		2,050	2,120	2,340	9.7	4.3	B88343
Galloway No. 3	do.	T	Run-of-mine		2,040	2,150	2,410	9.1	3.0	B88167
Do.	do.	T	4- by 2-inch (W)		2,120	2,210	2,520	7.9	2.7	D91549
Do.	do.	T	2- by 1-1/4-inch (W)		2,120	2,200	2,520	8.2	2.6	D91550
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,200	2,520	2,660	7.1	2.3	D91551
Do.	do.	T	1-1/4-inch by 0		2,100	2,180	2,390	10.5	3.1	D91552
Do.	do.	M		1	2,030	2,130	2,470	7.8	2.8	D90245
Hodgesville (Upshur County)										
Gum Mountain	Redstone	T	Run-of-mine		2,150	2,210	2,420	8.8	1.9	C95815
Lona No. 1	do.	T	do.		1,940	2,260	2,500	9.3	2.7	D73526

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Barbour County (Con.)										
Junior										
Junior No. 2	Upper Kittanning	T	Run-of-mine		2,890	2,910+	-	11.9	.9	D35452
Junior No. 4	do.	T	do.		2,810	2,880	2,890+	12.4	1.2	A41802
Do.	do.	T	2-inch lump		-	2,910+	-	10.8	1.1	B22092
Do.	do.	T	2-inch by 0		-	2,910+	-	11.5	1.1	B22093
Meadowville										
Houck	Bakerstown	T	Run-of-mine		1,920	2,070	2,370	13.8	4.5	D93078
Do.	do.	T	do.		1,910	2,000	2,330	13.9	4.8	D96694
Meriden										
Meriden No. 1	Lower Kittanning	T	1-1/4-inch lump		2,220	2,420	2,580	11.6	2.4	A32889
Do.	do.	T	3/4-inch by 0		2,020	2,410	2,470	11.4	2.8	A32852
Do.	Upper Freeport	T	2-inch lump		1,990	2,340	2,450	11.9	3.2	A21901
Do.	do.	T	Run-of-mine		2,130	2,450	2,510	12.3	2.9	A21902
Meriden No. 2	Upper Kittanning	T	2-inch lump		2,240	2,510	2,590	13.3	2.3	A16200
Do.	do.	T	Run-of-mine		2,240	2,510	2,590	14.3	2.2	A16201
Overfield										
Pepper No. 2	Pittsburgh	T	do.		2,070	2,200	2,440	8.3	2.2	E56194
Do.	do.	T	5- by 1-1/4-inch		2,120	2,210	2,480	8.4	2.1	E56195
Do.	do.	T	1-1/4- by 3/4-inch		2,100	2,210	2,480	8.1	2.3	E56196
Do.	do.	T	3/4-inch by 0		2,180	2,230	2,420	7.7	2.2	E56197
Do.	Redstone	T	5- by 1-1/4-inch		2,050	2,160	2,480	10.0	2.7	E55468
Do.	do.	T	1-1/4- by 3/4-inch		1,940	2,120	2,360	8.8	2.9	E55469
Do.	do.	T	3/4-inch by 0		2,150	2,200	2,360	7.9	2.5	E55470
Thomas	do.	T	Run-of-mine		2,030	2,140	2,440	9.0	2.8	E68596
Peel Tree										
Queen Brothers No. 6	do.	T	do.		2,060	2,150	2,540	7.0	1.7	E68725
Philippi										
McKinney	Pittsburgh	T	do.		1,990	2,090	2,300	9.1	3.2	D94741
Meriden	Upper Freeport	T	do.		2,310	2,570	2,720	12.1	2.2	E55135
Volga										
Rex	Redstone	T	do.		1,990	2,260	2,450	7.9	2.9	D42784
Do.	Pittsburgh	T	2-1/4- by 1-1/4-inch		1,990	2,080	2,310	12.8	5.7	E23310
Do.	do.	T	1-1/4-inch by 0		2,020	2,060	2,310	10.7	4.1	E23311
Rex No. 2	do.	T	Run-of-mine		1,970	2,050	2,310	8.0	3.3	D43825
Do.	Redstone	T	2- by 1-1/4-inch		2,030	2,100	2,420	13.8	3.7	D44010
Do.	do.	T	1-1/4-inch by 0		2,080	2,130	2,420	8.8	2.6	D44011
Tuckahoe	do.	T	Run-of-mine		2,080	2,260	2,380	9.0	2.2	C95937
Do.	Pittsburgh	T	2-inch lump		2,030	2,130	2,490	13.7	5.9	C95934
Do.	do.	T	2-inch by 0		2,050	2,180	2,450	12.9	5.2	C95935
Do.	do.	T	Run-of-mine		2,030	2,150	2,420	11.9	3.5	D46149
Volga	Redstone	T	do.		2,030	2,260	2,520	13.5	1.8	C96223
Webster										
Arnold	Pittsburgh	T	do.		1,910	2,030	2,420	8.6	3.7	E58465
Boone County										
Ashford										
Orlandi	No. 2 Gas	T	5-inch lump		2,750	2,850	2,910+	6.1	1.0	B67860

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Do.	do.	T	5-inch by 0		2,580	2,680	2,830	7.4	1.0	B67861	
Cameo											
Cameo	Lower Kittanning	T	5-inch lump		-	2,910+	-	7.2	.7	B74767	
Do.	do.	T	5- by 3-inch		-	2,910+	-	8.4	.7	B74768	
Do.	do.	T	3- by 2-inch		-	2,910+	-	9.5	.7	B74769	
Do.	do.	T	2-inch by 0		2,840	2,910+	-	10.0	.8	B74770	
Clothier (Logan County)											
Bem	Alma	T	3-inch lump		2,000	2,330	2,550	5.8	2.1	D80762	
Do.	do.	T	3-inch by 0		2,180	2,470	2,580	8.2	1.8	D80763	
Garrison											
Webb	Winifrede	T	5-inch lump		2,910+	-	-	5.6	.5	B87379	
Do.	do.	T	5- by 2-inch		2,910+	-	-	6.0	.6	B87380	
Do.	do.	T	2-inch by 0		2,910+	-	-	6.4	.7	B87381	
Webb No. 3	do.	T	5-inch lump		2,910+	-	-	5.6	.5	D44012	
Do.	do.	T	5- by 3-inch		2,910+	-	-	7.0	.5	D44013	
Do.	do.	T	3- by 2-inch		2,910	2,910+	-	7.7	.5	D44014	
Do.	do.	T	2-inch by 0		2,840	2,910+	-	9.8	.5	D44015	
Gordon											
Five Block	Lower Kittanning	T	5-inch lump		2,910+	-	-	3.9	.7	D40894	
Do.	do.	T	5- by 2-1/2-inch		2,910+	-	-	5.8	.8	D40895	
Do.	do.	T	2-1/2-inch by 0		2,910+	-	-	13.2	.8	D40896	
Golden Arrow No. 2	Winifrede	T	5-inch lump		2,840	2,910+	-	5.4	.7	B67856	
Do.	do.	T	5- by 3-inch (W)		2,840	2,910+	-	6.9	.7	B67857	
Do.	do.	T	3- by 2-inch (W)		2,840	2,910+	-	8.2	.7	B67858	
Do.	do.	T	2-inch by 0 (W)		2,890	2,910+	-	9.4	.9	B67859	
Jeffery											
Joan Ann	Chilton	T	5-inch lump		2,910+	-	-	3.8	.6	D92452	
Do.	do.	T	5- by 2-inch		2,730	2,800	2,910+	6.6	.6	D92453	
Do.	do.	T	2-inch by 0		2,800	2,900	2,910+	10.0	.7	D92454	
Spruce River No. 4	Alma	M		4	2,400	2,760	2,800	5.8	1.7	A74396 to A74399	
Do.	do.	T	8- by 2-3/4-inch		2,110	2,300	2,480	7.5	2.0	B89899	
Do.	do.	T	2-3/4-inch by 0		2,100	2,250	2,470	9.2	2.2	B89900	
Spruce River No. 8	do.	T	Run-of-mine		2,020	2,350	2,550	7.9	2.3	E10430	
Do.	do.	T	5-inch lump		2,470	2,570	2,680	4.7	1.5	E30494	
Do.	do.	T	2-inch by 0		2,260	2,500	2,660	7.7	1.8	E30495	
Spruce River No. 9	Chilton	T	8-inch lump		2,530	2,680	2,810	4.9	1.0	E10431	
Do.	do.	T	8- by 2-inch		2,470	2,570	2,670	6.1	1.2	E10432	
Do.	do.	T	2-inch by 0		2,050	2,230	2,480	8.3	1.9	E10433	
Do.	do.	T	5-inch lump		2,730	2,820	2,910+	3.5	.7	E45928	
Do.	do.	T	5- by 3-inch		2,780	2,900	2,910+	4.3	.7	E45929	
Do.	do.	T	3-inch by 0		2,680	2,790	2,900	7.3	.8	E45930	
Keith											
Red Cedar	Cedar Grove	T	6- by 2-3/4-inch		2,110	2,210	2,570	6.1	1.5	D44150	
Do.	do.	T	2-3/4- by 3/4-inch		2,570	2,660	2,840	5.3	.9	D44151	
Do.	do.	T	3/4-inch by 0		2,730	2,800	2,860	8.0	.8	D44152	
Do.	do.	T	5- by 2-3/4-inch (W)		2,160	2,440	2,600	6.7	1.1	E9615	
Do.	do.	T	2-3/4-inch by 0 (W)		2,210	2,430	2,610	8.7	1.0	E9616	
Madison											
Green Brothers No. 1	Alma	T	Run-of-mine		2,490	2,550	2,650	7.5	1.6	D41087	
Montcoal (Raleigh County)											
Montcoal No. 1	Winifrede	T	5-inch lump		2,820	2,910+	-	4.6	.6	B89204	
Do.	do.	T	5- by 3-inch		2,770	2,910+	-	6.1	.6	B89205	
Do.	do.	T	3- by 2-inch (W)		2,850	2,910+	-	6.0	.6	B89206	
Do.	do.	T	2- by 1-1/2-inch (W)		2,770	2,870	2,910+	6.7	.7	B89207	
Do.	do.	T	2-inch by 0		2,770	2,910+	-	8.1	.7	B89208	
Do.	Hernshaw	T	2-inch lump		2,030	2,310	2,470	7.0	1.3	B88917	
Do.	do.	T	2-inch by 0		2,100	2,440	2,650	5.7	1.2	B88918	
Morrisvale											
Jarroll No. 1	Lower Kittanning	T	5-inch lump		2,910+	-	-	6.7	.8	D40416	
Do.	do.	T	5- by 2-inch		2,910+	-	-	7.8	.8	D40417	

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Boone County (Con.)										
Morrisvale										
Jarroll No. 1	Lower Kittanning	T	2-inch by 0		2,910	2,910+	-	11.4	.9	D40418
Royal Block	do.	T	Run-of-mine		2,910+	-	-	12.0	.8	D41849
Nellis										
Nellis	No. 2 Gas	T	6-inch lump		2,660	2,730	2,910+	3.8	.9	B89896
Do.	do.	T	6- by 2-3/4-inch (W)		2,650	2,710	2,910+	5.5	1.0	B89897
Do.	do.	T	2-3/4-inch by 0 (W)		2,670	2,780	2,910+	7.8	.9	B89898
Ottawa										
Chilton-Hernshaw	Chilton	T	5-inch lump		2,910+	-	-	5.5	.6	E21155
Do.	do.	T	5- by 2-inch		2,910+	-	-	6.7	.5	E21156
Do.	do.	T	2-inch by 0		2,910+	-	-	7.8	.6	E21157
Clothier No. 1	do.	T	Run-of-mine		2,910+	-	-	9.2	.6	D41467
Prenter										
Red Parrot No. 2	Lower Kittanning	T	5-inch lump		2,910+	-	-	4.2	.6	B89543
Do.	do.	T	5- by 2-inch		2,910+	-	-	6.6	.6	B89544
Do.	do.	T	2-inch by 0		2,910+	-	-	7.6	.8	B89545
Red Parrot No. 5	do.	T	5-inch lump		2,910+	-	-	3.2	.7	B89441
Do.	do.	T	5- by 2-inch		2,910+	-	-	4.7	.7	B89442
Do.	do.	T	2-inch by 0		2,910+	-	-	9.1	.8	B89443
Red Dragon										
Blue Pennant No. 15	do.	T	5-inch lump		2,730	2,820	2,910+	2.9	.6	B88913
Do.	do.	T	5- by 3-inch		2,910+	-	-	4.0	.7	B88914
Do.	do.	T	3- by 2-inch		2,910+	-	-	4.0	.6	B88915
Do.	do.	T	2-inch by 0		2,910+	-	-	5.2	.7	B88916
Ridgeview										
Ridgeview	Cedar Grove	T	5-inch lump		2,340	2,450	2,680	6.0	1.7	E8611
Do.	do.	T	5- by 2-3/4-inch (W)		2,160	2,450	2,560	6.0	1.8	E8612
Do.	do.	T	2-3/4- by 1-1/4-inch (W)		2,190	2,460	2,590	6.2	1.9	E8613
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,120	2,450	2,570	6.2	1.9	E8614
Do.	do.	T	1/4-inch by 0		2,120	2,360	2,590	14.4	2.3	E8615
Do.	No. 2 Gas	T	5-inch lump		2,520	2,620	2,730	5.0	1.1	E21257
Do.	do.	T	5- by 2-3/4-inch (W)		2,600	2,690	2,790	4.0	.9	E21258
Do.	do.	T	2-3/4- by 1-1/4-inch (W)		2,620	2,730	2,800	3.7	.8	E21259
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,710	2,840	2,910+	7.0	.9	E21260
Do.	do.	T	1/4-inch by 0		2,710	2,790	2,890	16.2	1.1	E21261
Ridgeview No. 1	do.	T	5-inch lump		2,400	2,510	2,780	3.0	1.0	B86238
Do.	do.	T	5- by 2-3/4-inch		2,530	2,620	2,910+	2.9	.9	B86239
Do.	do.	T	2-3/4-inch by 0		2,500	2,590	2,750	8.4	1.2	B86240
Stickney (Raleigh County)										
Montcoal No. 2	Winifrede	T	5-inch lump		2,750	2,910	2,910+	4.4	.5	B89221
Do.	do.	T	5- by 3-inch		2,910	2,910+	-	5.6	.5	B89222
Do.	do.	T	3- by 2-3/4-inch		2,910	2,910+	-	6.3	.5	B89223
Do.	do.	T	2-3/4-inch by 0		2,850	2,910+	-	8.3	.5	B89224
Twilight										
Robin Hood	Lower Kittanning	T	Run-of-mine		2,910+	-	-	5.4	.6	D44536
Do.	Hernshaw	T	do.		2,720	2,780	2,840	7.2	.8	D44537
Do.	Winifrede	T	5-inch lump		2,630	2,730	2,910	3.1	.7	E10860

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Do.	do.	T	5- by 2-inch (W)		2,810	2,910+	-	4.7	.5	E10861
Do.	do.	T	2- by 1-1/4-inch (W)		2,810	2,910+	-	6.2	.6	E10862
Do.	do.	T	1-1/4-inch by 0 (W)		2,800	2,910+	-	6.0	.7	E10863
Van										
Van	Coalburg	T	5-inch lump		2,890	2,910+	-	4.5	.6	D40636
Do.	do.	T	5- by 2-inch (W)		2,910+	-	-	6.0	.6	D40637
Do.	do.	T	2-inch by 0 (W)		2,860	2,910+	-	9.2	.8	D40638
Do.	do.	T	2- by 3/8-inch (W)		2,840	2,870	2,910+	7.9	.7	D40639
Do.	do.	T	3/8-inch by 0		2,730	2,780	2,860	12.7	.6	D40640
Wharton										
Wharton	Hernshaw	T	8- by 2-inch		2,610	2,680	2,850	5.9	.7	B89974
Do.	do.	T	2-inch by 0		2,320	2,470	2,730	6.3	1.0	B89975
Braxton County										
Burnsville										
Bower	Pittsburgh	T	Run-of-mine		2,000	2,150	2,520	8.1	2.5	D60228
Do.	do.	T	5- by 2-inch		2,000	2,150	2,520	7.7	3.0	D60229
Do.	do.	T	2-inch by 0		1,930	2,150	2,500	10.4	3.0	D60230
Laurel	do.	T	Run-of-mine (W)		2,030	2,120	2,370	7.5	2.6	E56037
Do.	do.	T	5/8-inch by 0		2,010	2,070	2,260	9.7	3.2	E56038
Do.	do.	T	5- by 2-inch (W)		2,050	2,160	2,440	7.1	2.5	E56039
Exchange										
Cedar Creek No. 1	do.	T	6-inch lump		1,920	2,020	2,200	10.4	2.7	D95074
Do.	do.	T	6-inch by 0		1,920	2,020	2,250	9.7	2.7	D95075
Brooke County										
Beech Bottom										
Beech Bottom	do.	M		6	2,090	2,170	2,300	10.0	2.9	A7000 to A7005
Do.	do.	T	Run-of-mine		2,060	2,200	2,430	12.9	3.7	B33126
Follansbee										
Valley No. 1	do.	T	2-inch lump		1,920	2,050	2,420	9.0	3.6	C86535
Do.	do.	T	2-inch by 0		1,870	2,310	2,420	11.1	2.9	C86536
Hollidays Cove										
Three Rivers	do.	T	4-inch lump		1,910	2,000	2,440	7.0	2.8	B33551
Do.	do.	T	4- by 1-7/8-inch		2,150	2,230	2,550	9.6	2.4	B33552
Do.	do.	T	1-1/4- by 3/8-inch		2,120	2,430	2,630	14.0	2.2	B33553
Do.	do.	T	3/8-inch by 0		2,040	2,170	2,570	16.4	1.6	B33554
Louise										
Cross Creek	do.	T	7- by 2-inch (W)		1,940	2,180	2,360	6.3	1.9	B57777
Do.	do.	T	2- by 1-1/4-inch (W)		1,950	2,280	2,430	6.9	1.6	B57778
Do.	do.	T	1-1/4- by 3/8-inch (W)		1,940	2,230	2,400	7.3	1.6	B57779
Do.	do.	T	3/4-inch by 0 (W)		2,010	2,250	2,550	14.2	1.8	B57780
Do.	do.	T	3/8-inch by 0		2,010	2,240	2,530	16.7	2.5	B57781
Do.	do.	T	Run-of-mine		2,100	2,410	2,580	10.9	1.6	B57782
Virginville										
Rainbow No. 2	do.	T	7- by 2-inch (W)		2,040	2,260	2,550	5.1	1.6	B57872
Do.	do.	T	2- by 1-1/4-inch (W)		2,080	2,280	2,580	6.7	2.0	B57873
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,080	2,230	2,610	6.8	2.0	B57874
Do.	do.	T	3/4-inch by 0 (W)		2,000	2,320	2,510	17.0	2.4	B57875
Do.	do.	T	3/8-inch by 0		2,000	2,300	2,490	19.3	2.6	B57876
Do.	do.	T	Run-of-mine		1,990	2,360	2,550	11.7	1.9	B57877
Weirton (Hancock County)										
Locust Grove	do.	T	do.		1,950	2,100	2,380	10.7	3.5	E41246
Wellsburg										
Brady	do.	T	3-1/8-inch lump		2,020	2,060	2,410	9.3	5.5	B33638
Do.	do.	T	3-1/8- by 1/2-inch		2,000	2,040	2,360	11.3	4.1	B33639
Do.	do.	T	1/2-inch by 0		2,030	2,160	2,400	15.8	3.8	B33640
Do.	do.	T	Run-of-mine		1,920	2,040	2,400	11.4	4.6	B33566
Gillchrist No. 3	do.	T	do.		1,900	2,050	2,370	8.3	2.8	B33185
Standard No. 2	do.	T	2-inch lump		1,950	2,080	2,350	8.8	4.0	B67092

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Brooke County (Con.)										
Wellsburg										
Standard No. 2	Pittsburgh	T	2-inch by 0		1,950	2,210	2,370	13.6	3.4	B67093
Clay County										
Bickmore										
Foster	Middle Kittanning	T	Run-of-mine		2,910+	-	-	11.8	.8	B90675
Leatherwood No. 1	do.	T	do.		2,870	2,910+	-	11.1	1.1	E67242
Middle Creek	do.	T	5-inch lump		2,910+	-	-	10.6	.7	B90676
Do.	do.	T	5- by 2-inch		2,910+	-	-	12.7	.9	B90677
Do.	do.	T	2-inch by 0		2,910+	-	-	11.7	1.0	B90678
LeMoyne	do.	T	6-inch lump		2,910+	-	-	9.8	.7	B90672
Do.	do.	T	6- by 3-inch		2,910+	-	-	12.1	.7	B90673
Do.	do.	T	3-inch by 0		2,910+	-	-	14.0	.8	B90674
Hartland										
LeMoyne No. 2	Upper Kittanning	M		3	2,210	2,320	2,590	8.3	2.2	D83602 to D83604
Do.	do.	T	Run-of-mine		2,420	2,610	2,680	9.3	2.0	E1308
Fayette County										
Ansted										
Ansted	No. 2 Gas	T	do.		2,790	2,910+	-	9.5	1.0	C5600
Do.	do.	T	do.		2,360	2,570	2,730	5.2	.8	F19242
Mill Creek No. 1	Sewell	T	do.		2,570	2,680	2,880	7.9	.7	C3363
Mill Creek No. 2	No. 2 Gas	T	do.		2,810	2,880	2,910+	7.6	.9	C3367
Old Gauley	Coalburg	T	do.		2,910+	-	-	8.0	.8	F16676
Beards Fork										
Beards Fork	No. 2 Gas	T	do.		2,870	2,910+	-	6.2	.9	C2887
Do.	Eagle	T	do.		2,610	2,710	2,850	4.9	.7	E6747
Beelick Knob										
Alaska	Fire Creek	T	5/8-inch lump		2,780	2,850	2,910+	9.1	.8	C3946
Do.	do.	T	5/8-inch by 0		2,800	2,900	2,910+	7.1	.8	C3947
Alaska No. 1	do.	T	4- by 1-1/4-inch		2,520	2,600	2,750	6.8	.6	D39883
Do.	do.	T	1-1/4- by 5/8-inch		2,520	2,600	2,750	8.3	.6	D39884
Do.	do.	T	5/8-inch by 0		2,730	2,800	2,910	6.8	.7	D39885
Do.	Pocahontas No. 6	T	1-1/4-inch by 0		2,650	2,810	2,910	6.3	.7	F17291
Beelick	Fire Creek	T	3/4-inch lump		2,250	2,530	2,720	5.0	1.2	B67094
Do.	do.	T	3/4- by 3/8-inch		2,590	2,710	2,840	7.2	1.2	B67095
Do.	do.	T	3/8-inch by 0		2,740	2,830	2,920	5.3	.9	B67096
Bellwood										
Bellwood	do.	T	Run-of-mine		2,640	2,740	2,850	5.0	.7	A39840
Peabody No. 71	Sewell	T	do.		2,740	2,800	2,910	7.3	1.0	C6349
Brooklyn										
Brooklyn	do.	T	7-inch lump		2,600	2,730	2,910+	2.2	.6	C3201
Do.	do.	T	7- by 3-inch		2,360	2,540	2,770	2.7	.8	C3202
Do.	do.	T	3- by 1-1/4-inch (W)		2,490	2,610	2,750	2.6	.7	C3203
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,700	2,780	2,910+	3.8	.6	C3204
Do.	do.	T	5/8-inch by 0		2,660	2,750	2,910+	5.7	.7	C3205

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Cunard No. 1	do.	T	1-1/4-inch lump		2,200	2,490	2,700	3.3	.6	E70321
Do.	do.	T	1-1/4- by 3/4-inch		2,480	2,670	2,860	4.3	.6	E70322
Do.	do.	T	3/4-inch by 0		2,480	2,620	2,820	4.4	.8	E70323
Cunard No. 2	do.	T	8-inch lump		2,330	2,520	2,770	2.1	.7	E70324
Do.	do.	T	8- by 4-inch (W)		2,150	2,310	2,530	2.3	.8	E70325
Do.	do.	T	4- by 1-3/4-inch (W)		2,330	2,560	2,750	2.2	.6	E70326
Do.	do.	T	1-3/4- by 5/8-inch (W)		2,580	2,700	2,870	3.3	.6	E70327
Do.	do.	T	5/8-inch by 0		2,600	2,710	2,910	5.4	.8	E70328
Caperton										
South Side	do.	T	Run-of-mine		2,290	2,570	2,650	4.1	.7	A140
Do.	do.	T	do.		2,570	2,710	2,890	3.3	.6	C3206
Carlisle										
Oakwood	do.	T	8-inch lump		2,360	2,420	2,470	2.4	.6	F12264
Do.	do.	T	8- by 3-1/2-inch (W)		2,100	2,260	2,430	3.0	.9	F12265
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,070	2,310	2,490	3.6	.9	F12266
Do.	do.	T	1-3/4- by 1-inch (W)		2.160	2,510	2,670	4.7	.8	F12267
Do.	do.	T	1-inch by 0 (W)		2,170	2,470	2,590	6.5	1.0	F12268
Claremont										
Beechwood	Fire Creek	T	Run-of-mine		2,620	2,760	-	4.8	.5	A14306
Clifftop										
Babcock No. 7	Sewell	T	do.		2,690	2,790	2,910+	6.7	.7	C3763
Babcock No. 10	do.	T	do.		2,690	2,800	2,910+	4.0	.7	C3764
Cunard										
Coal Run	do.	T	8-inch lump		2,500	2,740	2,910+	1.9	.5	C4745
Do.	do.	T	8- by 3-inch		2,680	2,770	2,880	3.8	.7	C4746
Do.	do.	T	3- by 1-1/4-inch		2,560	2,750	2,910+	1.7	.5	C4747
Do.	do.	T	1-1/4-inch by 0		2,470	2,600	2,850	1.9	.5	C4748
Deepwater										
Deepwater	No. 2 Gas	T	Run-of-mine		2,150	2,420	2,780	5.6	.9	C3254
Deepwater No. 1	do.	T	do.		2,510	2,640	2,780	3.9	.7	B85935
Dunloup										
Derryhole	Sewell	T	do.		2,090	2,300	2,390	5.0	1.3	A13549
Dunloup	do.	T	do.		2,390	2,510	2,590	3.2	.6	A13009
East Rainelle (Greenbrier Co.)										
Green Siding	Fire Creek	T	do.		2,840	2,890	2,910+	11.5	.8	C47246
Elkridge										
Powellton No. 3	Powellton	T	2-inch lump		2,910+	-	-	7.3	.6	C2884
Do.	do.	T	2-inch by 0		2,910+	-	-	7.2	.8	C2885
Elverton										
Elverton	Sewell	T	Run-of-mine		2,300	2,490	2,590	3.9	.7	A14064
Do.	do.	T	3-inch lump		2,490	2,600	2,800	2.8	.6	C3953
Do.	do.	T	3- by 1-1/4-inch		2,590	2,690	2,860	5.1	.8	C3954
Do.	do.	T	1-1/4-inch by 0		2,640	2,740	2,850	7.1	.8	C3955
Fayette										
Ames	do.	T	10-inch lump		2,290	2,420	2,570	3.8	.8	F15079
Do.	do.	T	10- by 3-inch		2,330	2,570	2,730	4.6	.7	F15080
Do.	do.	T	3- by 1-1/4-inch (W)		2,370	2,440	2,630	3.7	.6	F15081
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,360	2,590	2,820	6.2	.7	F15082
Do.	do.	T	3/8-inch by 0		2,570	2,730	2,890	7.9	.8	F15083
Coleway	do.	T	Run-of-mine		2,700	2,780	2,890	4.7	.6	C4312
Fire Creek										
Fire Creek	Fire Creek	T	1-1/4-inch by 0		2,870	2,920	2,950+	6.4	.6	A71735
Do.	Sewell	T	3-inch lump		2,620	2,660	2,780	2.1	.6	D39782
Do.	do.	T	3- by 1-1/2-inch		2,470	2,520	2,650	3.4	.7	D39783
Do.	do.	T	1-1/2-inch by 0		2,470	2,570	2,730	4.1	.7	D39784
Gamoca										
Midvale No. 2	No. 2 Gas	T	2-3/4-inch lump		2,540	2,690	2,860	6.9	.7	C2882
Do.	do.	T	2-3/4-inch by 0		2,020	2,270	2,460	7.8	.9	C2883
Glen Jean										
Collins	Sewell	T	Run-of-mine		1,990	2,200	2,340	5.2	1.5	A12566
Nichol	do.	T	do.		2,080	2,280	2,410	4.1	.8	A12660

1/ M mine sample, T tipple sample 2/ W washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent dry basis: Ash	Percent dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Fayette County (Con.)										
Harvey										
Harvey	Sewell	T	Run-of-mine		2,190	2,420	2,480	4.3	.8	A12402
Do.	do.	T	3/4-inch lump		2,400	2,620	2,840	3.7	.8	C1934
Do.	do.	T	3/4-inch by 0		2,550	2,690	2,880	5.3	.9	C1935
Ingram Branch										
Ingram Branch	Little Eagle	T	2-inch lump		2,880	2,910+	-	8.3	.7	F13901
Do.	do.	T	2-inch by 0		2,800	2,880	2,910+	6.5	.8	F13902
Jodie										
Rich Creek No. 1	No. 2 Gas	T	2-3/4-inch lump		2,740	2,840	2,910+	3.3	.7	C6346
Do.	do.	T	2-3/4-inch by 0		2,800	2,870	2,910+	8.2	.8	C6347
Kathryn										
Hemlock	Fire Creek	T	4-inch lump		2,110	2,220	2,550	2.2	.8	D39288
Do.	do.	T	4- by 1-1/4-inch (W)		2,680	2,760	2,860	6.2	.7	D39289
Do.	do.	T	1-1/4-inch by 0 (W)		2,650	2,730	2,840	7.3	.9	D39290
Do.	do.	T	Run-of-mine		2,420	2,690	2,890	6.4	.9	F15434
Kay Moor										
Kay Moor	Sewell	T	8-inch lump		2,280	2,330	2,620	2.0	.6	C41560
Do.	do.	T	8- by 3-inch		2,280	2,420	2,620	2.5	.6	C41561
Do.	do.	T	3- by 1-1/4-inch (W)		2,470	2,580	2,710	2.3	.5	C41562
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,660	2,730	2,820	3.0	.5	C41563
Do.	do.	T	5/8-inch by 0		2,660	2,730	2,820	4.6	.5	C41564
Kay Moor No. 1	do.	T	Run-of-mine		2,410	2,570	2,740	3.2	.5	A14176
Kay Moor No. 2	do.	T	do.		2,290	2,460	2,590	4.5	.6	A14175
Kilsyth										
Balwood	do.	T	do.		-	2,450	2,570	6.4	1.1	95265
Do.	do.	M		3	2,520	2,610	2,660	3.8	.8	95544 to 95546
Fayral	do.	T	Run-of-mine		2,110	2,470	2,550	9.7	1.6	A5968
Do.	do.	M		3	2,560	2,680	2,760	3.9	.7	A5969 to A5971
Kilsyth	do.	T	Run-of-mine		2,160	2,370	2,510	5.5	1.0	A13272
North Kilsyth	do.	M		3	2,470	2,710	2,810	4.4	.8	95105 to 95107
Do.	do.	T	Run-of-mine		2,440	2,620	2,680	7.9	1.0	A960
Siltex	do.	M		3	2,650	2,740	-	4.8	.8	95379 to 95381
Do.	do.	T	Run-of-mine		2,560	2,680	2,740	6.0	.8	A961
Do.	do.	M		1	2,000	2,180	2,470	3.8	.9	A59370
Kimberly										
Armstrong No. 1	Eagle	T	Run-of-mine		2,770	2,860	2,910+	5.8	.8	D95076
Kincaid										
Powellton	Powellton	T	do.		2,850	2,910+	-	4.9	.8	C2888
Kingston										
Kingston No. 5	Eagle	M		1	2,900	2,920+	-	4.7	.6	A49121
Laurel										
Laurel	Fire Creek	T	4-inch lump		1,970	2,030	2,390	3.8	1.1	D39785
Do.	do.	T	4- by 1-1/4-inch (W)		2,030	2,090	2,460	5.6	.8	D39786
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,520	2,590	2,730	9.7	.8	D39787
Do.	do.	T	3/4-inch by 0 (W)		2,650	2,710	2,890	9.0	.7	D39788
Lawton										
Big Q	do.	T	Run-of-mine		2,370	2,640	2,680	7.6	.9	A14584

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Greenwood	do.	T	3-inch lump		1,940	2,000	2,360	6.9	2.1	D39284
Do.	do.	T	3- by 1-1/4-inch (W)		2,210	2,260	2,490	8.0	1.0	D39285
Do.	do.	T	1-1/4- by 1/2-inch (W)		2,230	2,310	2,490	7.7	.8	D39286
Do.	do.	T	1/2-inch by 0		2,470	2,600	2,750	10.5	1.0	D39287
Do.	do.	T	Run-of-mine		2,360	2,550	2,730	7.6	.7	F15190
Layland										
Layland	do.	T	do.		2,280	2,640	2,680	6.3	.9	A14776
Do.	do.	T	6- by 3-inch (W)		2,020	2,300	2,480	4.6	1.0	D93387
Do.	do.	T	3- by 1-1/4-inch (W)		2,550	2,690	2,840	5.9	.8	D93388
Do.	do.	T	1-1/4-inch by 0 (W)		2,470	2,660	2,840	7.6	.7	D93389
Lochgelly										
Lochgelly	Sewell	M		1	2,280	2,450	2,710	1.7	.5	B14278
Do.	do.	T	8-inch lump		2,310	2,510	2,610	1.7	.5	F11934
Do.	do.	T	8- by 3-1/2-inch (W)		2,190	2,510	2,780	1.8	.5	F11935
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,190	2,570	2,820	2.5	.5	F11936
Do.	do.	T	1-3/4- by 1-inch (W)		2,520	2,680	2,780	2.5	.5	F11937
Do.	do.	T	1- by 3/8-inch (W)		2,680	2,750	2,880	3.3	.6	F11938
Do.	do.	T	3/8-inch by 0		2,460	2,610	2,800	6.1	.5	F11939
Long Branch										
Long Branch	Eagle	T	2-inch lump		2,910+	-	-	4.5	.7	C3212
Do.	do.	T	2-inch by 0 (W)		2,810	2,910+	-	7.3	.7	C3213
MacDonald										
MacDonald	Sewell	T	Run-of-mine		2,010	2,220	2,390	3.9	1.4	A13079
Scarbro	do.	T	do.		2,180	2,450	2,530	7.8	1.4	A12212
Marting										
Smithers Creek	No. 2 Gas	T	do.		2,030	2,270	2,330	6.0	1.2	99249
Milburn										
Milburn No. 1	Eagle	T	do.		2,910+	-	-	4.6	.6	C2886
Milburn No. 2	Powellton	T	do.		2,730	2,780	2,910	5.8	.8	C2541
Minden										
Minden	Sewell	T	8-inch lump		1,950	2,040	2,300	3.0	1.2	E45285
Do.	do.	T	8- by 3-inch (W)		1,970	2,100	2,420	2.9	1.0	E45286
Do.	do.	T	3- by 2-1/2-inch (W)		1,970	2,060	2,360	3.3	1.2	E45287
Do.	do.	T	2-1/2-inch by 0		2,070	2,190	2,460	4.4	1.0	E45288
Do.	do.	T	8-inch lump		1,990	2,100	2,420	2.8	1.1	E52788
Do.	do.	T	8- by 3-inch (W)		1,990	2,100	2,360	3.1	1.2	E52789
Do.	do.	T	3- by 2-1/2-inch (W)		1,930	2,110	2,420	2.6	.9	E52790
Do.	do.	T	2-1/2-inch by 0		2,110	2,410	2,620	4.7	.9	E52791
Morganette										
Morganette	Pocahontas No. 4	T	Run-of-mine		2,560	2,620	2,680	4.7	.8	A11433
Mount Hope										
Garden Ground	Sewell	T	8-inch lump		2,010	2,310	2,590	1.9	.8	D74001
Do.	do.	T	8- by 3-inch (W)		1,980	2,360	2,550	2.4	.9	D74002
Do.	do.	T	3- by 1-1/2-inch (W)		2,130	2,620	2,730	2.7	.8	D74003
Do.	do.	T	1-1/2- by 7/8-inch (W)		2,500	2,680	2,810	3.2	.8	D74004
Do.	do.	T	7/8- by 3/8-inch (W)		2,650	2,760	2,910+	3.2	.6	D74005
Do.	do.	T	3/8-inch by 0		1,950	2,320	2,590	5.6	1.1	D74006
Do.	do.	T	Run-of-mine		2,640	2,680	2,810	6.2	.8	F13903
Lee	do.	M		3	2,640	2,720	2,780	3.8	.7	95548 to 95550
Sugar Creek	do.	T	Run-of-mine		2,390	2,620	2,680	3.7	.7	A13271
Newlyn										
Cadle Ridge	do.	T	do.		2,030	2,390	2,570	5.5	.9	A19761
Dunglen	Fire Creek	T	do.		2,400	2,580	2,740	3.7	.5	A14197
Meadow Fork	Sewell	T	do.		1,890	2,260	2,570	4.4	.9	A19885
Newlyn	Fire Creek	T	do.		2,190	2,480	2,690	4.7	.7	A19869
Nuttallburg										
Dubree No. 4	Sewell	T	8-inch lump		2,700	2,780	2,840	3.4	.6	D53404
Do.	do.	T	8- by 4-inch		2,680	2,730	2,840	3.2	.5	D53405
Do.	do.	T	4- by 1-1/4-inch		2,780	2,840	2,910+	3.9	.5	D53406
Do.	do.	T	1-1/4-inch by 0		2,860	2,910+	-	6.7	.5	D53407
Do.	do.	T	1-1/4- by 5/8-inch		2,910+	-	-	8.3	.5	D53408

1 M, mine sample; T, tipple sample 2 W, washed.

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1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Fayette County (Con.)										
Nuttallburg										
Dubree No. 4	Sewell	T	5/8-inch by 0		2,910+	-	-	5.7	.5	D53409
Oakwood										
Oakwood	do.	T	7-inch lump		2,160	2,260	2,530	2.9	.8	C1721
Do.	do.	T	7- by 3-inch		2,180	2,280	2,550	3.4	.8	C1722
Do.	do.	T	3- by 1-1/4-inch (W)		2,260	2,350	2,570	4.1	.7	C1723
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,510	2,620	2,780	6.3	.8	C1724
Do.	do.	T	3/4- by 3/8-inch		2,570	2,680	2,840	7.2	.9	C1725
Do.	do.	T	3/8-inch by 0		2,410	2,570	2,730	5.5	.8	C1726
Page										
Page	No. 2 Gas	T	3/4-inch lump		2,780	2,860	2,910	11.2	1.2	D19502
Do.	do.	T	3/4-inch by 0		2,860	2,910	2,910+	9.5	1.0	D19503
Pax										
Lively	do.	T	Run-of-mine		2,680	2,800	2,910+	5.7	.7	F14650
Powellton										
Armstrong	Eagle	T	do.		2,520	2,730	2,890	10.9	.9	D6909
Price Hill (Raleigh County)										
Cepece	Sewell	M		3	2,140	2,440	2,520	3.8	.8	95383 to 95385
Do.	do.	T	Run-of-mine		2,060	2,370	2,480	4.5	.9	95542
Prudence										
Prudence	do.	T	do.		2,150	2,390	2,580	3.3	.8	A12546
Rainelle (Greenbrier County)										
Low Ash	Fire Creek	T	do.		2,810	2,890	2,910+	8.2	.7	C6032
Redstar										
Star	Sewell	T	do.		2,080	2,220	2,370	3.7	.9	A12403
Robson										
Mary Frances No. 3	No. 2 Gas	T	2-inch lump (W)		2,360	2,520	2,620	8.3	1.4	D90445
Do.	do.	T	2-inch by 0 (W)		2,520	2,590	2,680	7.6	1.5	D90446
Robson No. 1	do.	T	Run-of-mine		2,440	2,570	2,640	4.9	1.3	D90311
Robson No. 3	do.	T	Run-of-mine (W)		2,560	2,660	2,840	7.7	1.3	E1797
Do.	do.	T	2-inch by 0 (W)		2,580	2,650	2,750	5.9	1.3	E1798
Rothwell										
Dubree No. 2	Sewell	T	Run-of-mine		2,710	2,810	2,910+	4.3	.7	C4983
Do.	do.	T	8-inch lump		2,680	2,790	2,860	2.9	.6	D53628
Do.	do.	T	8- by 4-inch		2,730	2,840	2,890	2.6	.6	D53629
Do.	do.	T	4- by 1-1/4-inch		2,620	2,680	2,820	3.5	.6	D53630
Do.	do.	T	1-1/4-inch by 0		2,780	2,860	2,910+	6.6	.7	D53631
Do.	do.	T	1-1/4- by 5/8-inch		2,680	2,840	2,890	7.7	.7	D53632
Do.	do.	T	5/8-inch by 0		2,780	2,840	2,910	6.0	.6	D53633
Rush Run										
Rush Run	Fire Creek	T	Run-of-mine		2,230	2,280	2,390	4.3	.6	A13775
Russellville (Greenbrier Co.)										
Royalty	do.	T	1-1/4-inch lump		2,450	2,560	2,700	3.7	1.1	D90912
Do.	do.	T	1-1/4-inch by 0		2,520	2,610	2,770	7.0	.8	D90913
South Nuttall										
Eli	Sewell	T	8-inch lump		2,550	2,680	2,850	2.5	.6	C5142
Do.	do.	T	8- by 3-inch		2,690	2,820	2,910+	2.8	.5	C5143
Do.	do.	T	3- by 1-1/4-inch		2,310	2,560	2,820	4.5	.7	C5144

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Do.	do.	T	1-1/4-inch by 0		2,590	2,690	2,890	6.8	.7	C5145
Spring Dale										
Bowyer & McClinic	Fire Creek	T	Run-of-mine		2,710	2,830	2,900	7.8	.9	F18317
Stone Cliff										
Stone Cliff	do.	T	3/8-inch by 0		2,680	2,740	2,910+	7.0	.8	C3366
Summerlee										
Summerlee	Sewell	M		1	2,650	2,720	2,910	2.3	.6	A90522
Do.	do.	T	8-inch lump		2,150	2,290	2,550	1.7	.8	F11288
Do.	do.	T	8- by 3-1/2-inch (W)		2,260	2,470	2,730	1.7	.6	F11289
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,380	2,550	2,840	1.9	.6	F11290
Do.	do.	T	1-3/4- by 1-inch (W)		2,550	2,670	2,780	2.2	.5	F11291
Do.	do.	T	1- by 3/8-inch (W)		2,620	2,780	2,910	3.8	.5	F11292
Do.	do.	T	3/8-inch by 0		2,420	2,620	2,840	11.0	.5	F11293
Sun										
Sun	do.	T	Run-of-mine		2,130	2,390	2,510	6.8	.9	A13550
Thayer										
Ephriam Creek	Fire Creek	T	do.		2,230	2,370	2,660	6.5	.8	A14305
Thurmond										
Weewin	do.	T	do.		2,560	2,620	2,680	6.4	.6	A19703
Turkey Knob										
Turkey Knob	Sewell	T	do.		2,390	2,450	2,470	2.9	.6	A13078
Whipple										
Whipple	do.	T	do.		2,060	2,240	2,450	4.0	1.0	A12290
Do.	do.	T	8-inch lump		2,490	2,520	2,700	2.3	.5	D75131
Do.	do.	T	8- by 3-inch		2,270	2,470	2,730	2.5	.5	D75132
Do.	do.	T	3- by 1-1/2-inch		2,360	2,430	2,520	3.1	.6	D75133
Do.	do.	T	1-1/2- by 5/8-inch		2,180	2,570	2,680	5.8	.9	D75134
Do.	do.	T	5/8-inch by 0		2,230	2,520	2,720	4.6	.8	D75135
Willis Branch										
Willis Branch	No. 2 Gas	T	1-1/2-inch lump		2,910+	-	-	8.9	.7	C2257
Do.	do.	T	1-1/2-inch by 0		2,910	2,910+	-	7.6	.7	C2258
Winona										
Boone	Sewell	T	3/4-inch by 0		2,590	2,670	2,730	6.2	1.0	A21958
Dubree No. 1	do.	T	8-inch lump		2,070	2,200	2,490	3.2	.6	C40510
Do.	do.	T	8- by 3-inch		2,090	2,210	2,500	3.9	.6	C40511
Do.	do.	T	3- by 1-1/4-inch		2,460	2,570	2,670	6.8	.6	C40512
Do.	do.	T	1-1/4-inch by 0		2,610	2,680	2,780	5.8	.6	C40513
Dubree No. 3	do.	T	Run-of-mine		2,700	2,840	2,910+	5.6	.8	C5076
Dubree No. 5	do.	T	do.		2,360	2,640	2,850	6.7	1.0	C4913
Nuri	do.	T	do.		2,580	2,780	2,910+	2.5	.7	C6351
Rosedale	do.	T	7/8-inch by 0		2,710	2,770	2,860	8.0	.9	A22008
Gilmer County										
Burnsville (Braxton County)										
Stelfritz No. 1	Pittsburgh	T	Run-of-mine		2,150	2,340	2,570	8.0	1.7	E78436
Gilmer										
Gilmer	do.	T	do.		1,920	2,140	2,480	9.4	2.3	D84203
Do.	do.	T	2- by 3/4-inch		2,010	2,200	2,420	10.4	2.3	D93076
Do.	do.	T	3/4-inch by 0		2,010	2,230	2,440	14.5	2.6	D93077
Jon Tee	do.	T	6-inch lump		2,100	2,150	2,490	8.3	2.2	D40986
Do.	do.	T	6- by 1-1/4-inch		2,050	2,100	2,420	8.7	2.2	D40987
Do.	do.	T	1-1/4-inch by 0		2,000	2,050	2,230	9.7	2.6	D40988
Grant County										
Bayard										
Armstrong Plant	Bakerstown	T	5- by 1-1/4-inch (W)		2,000	2,090	2,390	7.1	2.6	E26986
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,000	2,090	2,390	7.0	2.1	E26987
Do.	do.	T	3/8- by 1/4-inch (W)		2,020	2,140	2,420	6.7	1.7	E26988
Do.	do.	T	1/4-inch by 0		1,970	2,140	2,420	9.0	2.3	E26989
Culpepper	Lower Kittanning	T	6- by 2-inch		2,650	2,720	2,810	18.0	1.7	A81566

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State county town and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Grant County (Con.)										
Bayard										
Culpepper	Lower Kittanning	T	2-inch lump		2,590	2,720	2,810	15.5	1.8	A81567
Do.	do.	T	2- by 1-inch		2,690	2,750	2,850	18.6	1.7	A81568
Do.	do.	T	Run-of-mine		2,440	2,510	2,690	17.7	2.7	A81569
Culpepper No. 1	do.	T	do.		2,450	2,510	2,570	12.9	1.8	A3952
Do.	do.	M		3	2,530	2,630	2,700	11.2	1.5	A3953 to A3955
Greenbrier County										
Anjean										
Anjean No. 5	Sewell	T	1-1/4-inch lump		2,250	2,580	2,670	4.8	.9	E80260
Do.	do.	T	1-1/4-inch by 0		2,130	2,420	2,600	4.7	1.2	E80261
Anjean No. 10	Fire Creek	T	Run-of-mine		2,900	2,910+	-	14.6	1.1	E80259
Lafayette	Pocahontas No. 6	T	5- by 1-1/4-inch		2,800	2,860	2,910+	6.7	.6	D93430
Do.	do.	T	1-1/4-inch by 0		2,870	2,910+	-	7.6	.8	D93431
Bellburn										
Crichton	Sewell	T	3- by 1-1/4-inch		2,620	2,670	2,790	12.1	1.7	C7032
Carl (Nicholas County)										
Timtony	do.	T	Run-of-mine		2,310	2,540	2,780	3.5	.7	D31196
Charmco										
Charmco No. 1	Fire Creek	T	1-1/4-inch lump		2,650	2,730	2,860	4.8	.9	C6627
Do.	do.	T	1-1/4-inch by 0		2,650	2,750	2,890	5.3	.9	C6628
Do.	do.	T	Run-of-mine		2,710	2,800	2,890	10.6	1.1	D21182
Laurel Creek	do.	T	do.		2,700	2,750	2,880	5.1	.9	C6350
Do.	do.	T	12- by 1-1/4-inch		2,750	2,800	2,910+	6.3	.8	D34554
Do.	do.	T	1-1/4-inch by 0		2,890	2,910+	-	5.6	.8	D34555
Clearco										
Beech Knob	Sewell	T	Run-of-mine		2,050	2,150	2,470	4.4	.8	D34807
Crichton										
Crichton No. 1	do.	T	3/4-inch lump		2,100	2,310	2,560	7.0	1.3	C7027
Do.	do.	T	3/4-inch by 0		2,140	2,330	2,570	5.7	1.3	C7028
Duo										
Bell	do.	T	Run-of-mine		2,250	2,520	2,750	5.2	1.0	C6626
Do.	do.	T	4- by 1-inch		2,050	2,130	2,420	4.2	1.1	D30980
Do.	do.	T	1-inch by 0		2,100	2,180	2,420	4.8	1.1	D30981
Duo	do.	T	12- by 3-inch		2,230	2,440	2,700	3.6	1.1	D35446
Do.	do.	T	3- by 1-1/4-inch		2,050	2,150	2,450	6.2	1.4	D35447
Do.	do.	T	1-1/4- by 3/4-inch		2,030	2,130	2,450	5.1	1.2	D35448
Do.	do.	T	3/4-inch by 0		2,110	2,260	2,520	5.7	1.3	D35449
Do.	do.	M		4	2,160	2,250	2,540	4.3	1.3	D37995 to D37998
East Rainelle										
Drake	Fire Creek	T	Run-of-mine		2,620	2,750	2,860	10.4	1.2	D77224
Leslie										
Leslie	Sewell	T	8-inch lump		2,310	2,500	2,680	2.7	.8	C41044
Do.	do.	T	8- by 3-inch		2,390	2,540	2,740	3.6	.7	C41045
Do.	do.	T	3- by 1-1/4-inch		2,570	2,650	2,800	9.7	1.0	C41046
Do.	do.	T	1-1/4-inch by 0		2,550	2,600	2,780	7.5	1.0	C41047

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Nelson No. 1	do.	T	Run-of-mine		2,060	2,450	2,530	5.6	1.1	A25821
McRoss										
Jeromi	Fire Creek	T	do.		2,470	2,570	2,700	7.5	1.4	D34557
Midland	do.	T	do.		2,780	2,820	2,870	6.7	.8	D34556
Marfrance										
Margarette	Sewell	T	do.		2,120	2,460	2,660	4.1	1.1	B14989
Do.	do.	T	3-inch lump		2,510	2,660	2,810	4.8	.7	B14988
Do.	do.	T	3/4-inch by 0		2,120	2,480	2,660	4.6	1.1	B14990
Do.	do.	T	1-1/4-inch lump		2,660	2,700	2,800	4.7	.7	D38602
Do.	do.	T	1-1/4-inch by 0		2,470	2,620	2,780	5.4	.8	D38603
Quinwood										
Quinwood	do.	M		1	2,000	2,290	2,510	3.3	1.4	B14273
Do.	do.	T	3-inch lump		2,420	2,620	2,890	2.6	.6	C7029
Do.	do.	T	3- by 3/4-inch		2,360	2,440	2,750	5.9	.7	C7030
Do.	do.	T	3/4-inch by 0		2,620	2,710	2,880	7.9	1.0	C8203
Quinwood No. 1	do.	T	3-inch lump		2,220	2,430	2,620	1.7	.8	C40050
Do.	do.	T	3- by 1-1/2-inch		2,270	2,450	2,740	5.1	.8	C40051
Do.	do.	T	1-1/2- by 3/4-inch		2,290	2,400	2,750	6.7	.8	C40052
Do.	do.	T	3/4-inch by 0		2,590	2,680	2,780	9.7	1.1	C40053
Richwood										
Beckley No. 1	do.	T	3- by 1-1/2-inch		2,910+	-	-	6.9	.8	D56535
Do.	do.	T	1-1/2- by 3/4-inch		2,910+	-	-	6.7	.7	D56536
Do.	do.	T	3/4-inch by 0		2,780	2,910	2,910+	5.5	.8	D56537
Donegan No. 13	do.	T	5-inch lump		2,500	2,570	2,800	1.7	.7	E621
Do.	do.	T	5- by 2-1/2-inch		2,550	2,800	2,910+	2.9	.6	E622
Do.	do.	T	2-1/2-inch by 0		2,910+	-	-	8.2	.6	E623
Geraldine	Beckley	T	Run-of-mine		2,910	2,910+	-	8.7	1.2	D56542
Harrison County										
Bridgeport										
Bridgeport	Pittsburgh	T	1-1/4-inch lump		1,930	2,080	2,380	8.3	2.6	E33380
Do.	do.	T	1-1/4- by 3/4-inch		2,010	2,100	2,420	8.1	2.8	E33381
Do.	do.	T	3/4-inch by 0		2,000	2,180	2,450	8.5	3.0	E33382
Erie No. 2	do.	T	3- by 3/4-inch		2,040	2,220	2,390	11.1	3.8	F11690
Do.	do.	T	3/4-inch by 0		2,090	2,230	2,400	10.6	3.5	F11691
Buckhannon (Upshur County)										
Queen No. 1	Redstone	T	Run-of-mine		2,030	2,100	2,360	7.9	1.9	D38918
Do.	do.	T	1-1/4- by 3/4-inch		2,030	2,190	2,450	8.0	2.5	E44481
Do.	do.	T	3/4-inch by 0		2,050	2,170	2,430	7.8	2.5	E44482
Clarksburg										
Carol No. 2	Pittsburgh	T	2-1/4-inch lump		1,990	2,050	2,340	12.3	5.2	C96082
Do.	do.	T	2-1/4-inch by 0		2,050	2,180	2,440	16.2	3.9	C96083
Consolidation No. 25	do.	T	5- by 1-1/4-inch		2,000	2,290	2,470	7.2	2.5	D69856
Do.	do.	T	1-1/4-inch by 0		1,940	2,420	2,470	7.7	3.1	D69857
Corona	do.	T	5- by 3/4-inch		2,030	2,150	2,410	8.6	3.7	D68537
Do.	do.	T	3/4-inch by 0		2,030	2,130	2,410	7.4	3.4	D68538
Do.	do.	T	Run-of-mine		1,920	2,010	2,380	7.9	3.6	E65699
J. Lee	do.	T	do.		1,920	2,040	2,210	8.4	3.1	E55136
Joyce No. 2	do.	T	5- by 1-1/4-inch		1,980	2,070	2,330	9.0	4.4	D81919
Do.	do.	T	1-1/4-inch by 0		2,020	2,050	2,280	8.1	3.7	D81920
Keeley No. 1	do.	T	Run-of-mine		1,970	2,030	2,380	8.4	3.0	D44393
Kelley No. 2	do.	T	do.		2,000	2,100	2,400	9.7	4.2	F13362
Do.	do.	T	5- by 2-inch		1,930	2,130	2,420	6.8	3.2	F13643
Do.	do.	T	2-inch by 0		1,940	2,210	2,420	8.8	3.2	F13644
Marion	do.	T	Run-of-mine		1,900	2,030	2,480	8.0	3.1	D93673
W & H	Redstone	T	do.		2,070	2,180	2,470	9.1	2.0	E55137
Dawmont										
Dawson	Pittsburgh	T	5- by 2-inch		2,050	2,120	2,460	7.2	2.3	B85148
Do.	do.	T	2- by 3/4-inch		2,010	2,130	2,420	7.3	2.2	B85149
Do.	do.	T	1-1/4- by 3/4-inch		2,020	2,220	2,490	8.0	3.3	F8367
Do.	do.	T	3/4-inch by 0		2,050	2,180	2,470	8.2	3.4	F8368

1 M, mine sample; T, tipple sample 2 W, washed

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Harrison County (Con.)										
Despard										
Columbia	Pittsburgh	T	Run-of-mine		2,080	2,210	2,490	10.4	2.8	D42792
Dola										
Ashcraft	do.	T	do.		2,010	2,090	2,420	7.7	3.9	B84830
Do.	do.	T	5- by 1-1/4-inch		1,940	2,080	2,440	8.6	4.0	D46653
Do.	do.	T	1-1/4-inch by 0		1,970	2,080	2,440	9.3	3.1	D46654
Chieftain No. 2	do.	T	5- by 2-inch (W)		1,990	2,030	2,330	8.6	3.7	E5895
Do.	do.	T	2-inch by 0 (W)		1,960	2,020	2,300	8.3	3.6	E5896
Do.	do.	T	2- by 1-1/4-inch (W)		1,930	2,020	2,310	8.6	3.6	E5897
Do.	do.	T	1-1/4- by 3/8-inch (W)		1,960	2,020	2,280	8.4	3.8	E5898
Do.	do.	T	3/8-inch by 0		1,920	2,000	2,120	9.0	4.3	E5899
Do.	do.	T	5- by 1-1/4-inch (W)		1,920	2,050	2,380	8.2	3.5	E5900
Do.	do.	T	1-1/4-inch by 0 (W)		1,920	2,020	2,190	8.1	3.7	E5901
Compass No. 2	do.	T	5- by 1-inch (W)		2,000	2,120	2,420	8.2	3.9	F10014
Do.	do.	T	1- by 1/4-inch (W)		2,020	2,130	2,360	7.4	3.8	F10015
Dola	do.	T	Run-of-mine		1,980	2,050	2,370	8.9	4.3	F10017
Eagle No. 2	do.	T	4-inch lump		2,000	2,060	2,470	8.7	3.3	D44661
Do.	do.	T	4- by 1-inch		1,970	2,030	2,520	10.7	4.4	D44662
Do.	do.	T	1-inch by 0		1,940	2,050	2,310	8.6	3.8	D44663
Penn No. 2	do.	T	5- by 1-1/4-inch		1,940	1,990	2,230	9.1	4.0	E58466
Do.	do.	T	1-1/4-inch by 0		1,910	2,010	2,400	9.3	3.7	E58467
Ravenwood	do.	T	2- by 3/4-inch		1,930	2,010	2,280	10.2	4.3	E76940
Do.	do.	T	3/4-inch by 0		2,000	2,040	2,240	8.6	4.0	E76941
Ruby	do.	T	2- by 1-1/4-inch (W)		2,000	2,090	2,500	7.7	3.5	F11295
Do.	do.	T	1-1/4- by 1/4-inch (W)		1,920	2,050	2,390	6.8	3.4	F11296
Do.	do.	T	1/4-inch by 0		1,900	2,040	2,280	10.8	4.7	F11297
Ten Mile	do.	M		4	1,960	2,020	2,140	8.1	4.1	E21921 to E21924
Do.	do.	T	2-inch by 0		1,900	1,980	2,080	9.7	4.1	E21926
Do.	do.	T	1-1/4- by 3/4-inch		1,940	1,980	2,150	9.6	4.3	E21927
Do.	do.	T	3/4-inch by 0		2,050	2,150	2,210	8.4	3.9	E21928
Enterprise										
Acme	do.	T	2- by 1-1/4-inch		2,040	2,160	2,320	10.8	3.0	F9801
Do.	do.	T	1-1/4-inch by 0		2,000	2,160	2,300	9.3	2.8	F9802
Nora	do.	T	2-3/4-inch lump		1,970	2,020	2,310	9.8	3.9	B85571
Do.	do.	T	2-3/4-inch by 0		1,930	2,010	2,310	9.9	3.4	B85572
William	do.	T	3- by 1-1/4-inch (W)		2,000	2,070	2,380	7.2	2.9	E28274
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,030	2,100	2,400	6.7	2.7	E28275
Do.	do.	T	3/4- by 3/8-inch (W)		2,030	2,090	2,340	6.7	2.6	E28276
Do.	do.	T	3/8-inch by 0 (W)		1,940	2,040	2,260	6.6	2.7	E28277
Erie										
Erie No. 1	do.	T	5- by 1-1/4-inch		2,030	2,130	2,420	8.3	2.9	D57726
Do.	do.	T	1-1/4- by 3/4-inch		2,100	2,180	2,420	8.3	2.6	D57727
Do.	do.	T	3/4-inch by 0		2,080	2,130	2,420	10.0	2.9	D57728
Francis Mine										
Frances	do.	T	Run-of-mine		1,950	2,040	2,390	8.3	3.2	E23830
Do.	do.	T	5- by 2-inch		1,940	2,260	2,470	9.6	3.1	F10570
Do.	do.	T	2- by 1-1/4-inch		2,030	2,250	2,390	9.0	3.5	F10571
Do.	do.	T	1-1/4-inch by 0		2,000	2,180	2,390	8.0	3.3	F10572

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Nixon No. 5	do.	T	Run-of-mine	2,170	2,400	2,560	6.4	1.4	F11726
Haywood									
Martin	do.	T	do.	1,970	2,020	2,350	7.9	3.7	E13730
Hepzibah									
Eagle	do.	T	5-inch lump	1,930	2,020	2,320	8.7	4.0	B85153
Do.	do.	T	5- by 2-inch	1,980	2,050	2,410	10.3	4.4	B85154
Do.	do.	T	2- by 3/4-inch	2,000	2,040	2,330	9.3	3.1	B85155
Do.	do.	T	3/4-inch by 0	1,980	2,080	2,310	9.1	3.0	B85156
Eagle No. 1	do.	T	Run-of-mine	1,970	2,030	2,470	7.8	3.2	D44660
Lost Creek									
Arthur	do.	T	5- by 1-1/4-inch (W)	1,920	2,030	2,470	6.1	3.4	E56970
Do.	do.	T	1-1/4- by 3/4-inch (W)	1,940	2,020	2,390	7.0	3.9	E56971
Do.	do.	T	3/4-inch by 0	1,920	2,020	2,310	7.6	3.9	E56972
Cleghorn	Redstone	T	Run-of-mine	1,980	2,090	2,390	8.2	3.5	E26384
McWhorter	Pittsburgh	T	do.	1,940	2,130	2,420	11.3	3.7	D69269
Do.	Redstone	T	do.	2,030	2,230	2,470	13.6	2.8	D68999
Milford No. 1	Pittsburgh	T	do.	1,970	2,080	2,420	7.7	3.8	D92448
Tasa No. 7	do.	T	3- by 2-inch	2,000	2,030	2,280	9.4	4.7	D92112
Do.	do.	T	2-inch by 0	1,950	2,050	2,360	9.1	4.4	D92113
Do.	do.	T	Run-of-mine	1,920	2,000	2,390	8.2	3.8	E44483
Yochym	Redstone	T	do.	1,980	2,060	2,400	11.9	3.4	E28399
Lumberport									
Corrado No. 3	Pittsburgh	T	do.	1,920	2,030	2,380	9.2	3.9	B22095
Katherine	do.	T	5- by 1-inch	1,930	1,980	2,140	10.4	4.3	E67844
Do.	do.	T	1-inch by 0	1,930	1,970	2,160	10.3	4.8	E67845
Laura Lee	do.	T	5- by 2-inch	1,960	2,010	2,310	8.6	3.5	E10189
Do.	do.	T	2- by 1-1/4-inch (W)	1,930	2,010	2,320	8.8	3.5	E10190
Do.	do.	T	1-1/4- by 3/4-inch (W)	1,950	2,020	2,330	7.8	3.5	E10191
Do.	do.	T	3/4-inch by 0	1,980	2,030	2,350	9.5	3.6	E10192
Orchard	do.	T	5- by 1-1/4-inch	1,970	2,050	2,310	8.8	3.2	D43823
Do.	do.	T	1-1/4-inch by 0	2,000	2,080	2,310	9.2	3.0	D43824
Ott	do.	T	Run-of-mine	1,900	1,970	2,330	8.5	3.4	D97660
Do.	do.	T	do.	2,110	2,320	2,520	9.7	3.9	F11078
Pigott	do.	T	do.	1,920	2,070	2,340	9.5	4.4	F15435
Rosebud No. 1	do.	T	do.	1,930	2,060	2,440	8.1	4.0	A83938
Meadowbrook									
Lambert's Run	do.	T	do.	1,970	2,280	2,450	7.5	3.1	F11294
McCandlish	do.	T	5-inch lump	2,090	2,390	2,470	6.2	2.1	F10946
Do.	do.	T	5- by 2-inch	2,010	2,390	2,550	7.6	2.3	F10947
Do.	do.	T	2- by 1-1/4-inch	2,050	2,360	2,470	8.7	2.9	F10948
Do.	do.	T	1-1/4- by 3/4-inch	2,000	2,280	2,510	7.1	2.6	F10949
Do.	do.	T	3/4-inch by 0	1,990	2,230	2,450	7.9	2.9	F10950
Meadowbrook No. 1	do.	T	Run-of-mine	1,940	2,010	2,260	8.5	2.7	D90447
Do.	do.	T	do.	2,170	2,490	2,600	5.9	1.4	E22589
Mount Clare									
Alpha	do.	T	1-inch by 0	1,930	2,050	2,360	9.5	3.9	B85152
Ronay	do.	T	5- by 1-inch	1,970	2,020	2,400	7.2	3.3	B66564
Do.	do.	T	1- by 1/2-inch	1,970	2,000	2,370	6.8	3.3	B66565
Do.	do.	T	1/2-inch by 0	1,980	2,010	2,380	7.1	3.2	B66566
R & V	Redstone	T	Run-of-mine	2,210	2,470	2,610	11.2	1.9	E24369
Do.	Pittsburgh	T	do.	1,940	2,020	2,420	8.4	3.0	E25672
Nutter Fort									
Glen Cambria No. 2	do.	T	do.	2,020	2,080	2,280	10.9	4.2	D90914
Highland No. 1	do.	T	do.	1,970	2,100	2,420	8.6	3.2	D58059
Nutter Fort	do.	T	1-1/2-inch lump	1,970	2,030	2,360	8.6	4.3	D39609
Do.	do.	T	1-1/2-inch by 0	1,920	1,970	2,130	7.8	3.9	D39610
Do.	do.	T	Run-of-mine	2,190	2,260	2,380	9.4	2.0	F12560
Sally Ann No. 2	do.	T	do.	1,940	2,140	2,420	7.9	4.1	F12760
Owings									
Consolidation No. 32	do.	T	5-inch lump	2,100	2,200	2,530	6.2	1.7	E6923
Do.	do.	T	5- by 2-inch (W)	2,200	2,240	2,530	7.0	1.4	E6924
Do.	do.	T	2- by 1-1/4-inch (W)	2,130	2,210	2,480	5.5	1.6	E6925

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Harrison County (Con.)										
Owings										
Consolidation No. 32	Pittsburgh	T	1-1/4- by 3/4-inch (W)		2,100	2,200	2,440	5.9	1.7	E6926
Do.	do.	T	3/4- by 3/8-inch (W)		2,100	2,200	2,440	6.0	1.8	E6927
Do.	do.	T	3/8-inch by 0		2,010	2,090	2,330	8.5	2.4	E6928
Pine Bluff										
Bingamon	do.	T	Run-of-mine		2,010	2,050	2,350	8.4	3.1	B84441
Miller	do.	T	5- by 1-1/4-inch		2,060	2,200	2,310	9.8	4.1	F13369
Do.	do.	T	1-1/4- by 3/4-inch		2,060	2,190	2,420	9.0	4.0	F13370
Do.	do.	T	3/4-inch by 0		2,060	2,190	2,440	8.5	3.8	F13371
Shinnston										
Bice	do.	M		1	2,050	2,150	2,200	8.8	2.6	A790
Helen	do.	T	3/4-inch lump		2,000	2,080	2,390	8.5	3.3	B21997
Do.	do.	T	3/4-inch by 0		1,870	2,060	2,270	8.4	2.9	B21998
Pitfair	do.	T	2- by 1-1/4-inch		2,010	2,190	2,510	9.2	2.0	E67556
Do.	do.	T	1-1/4- by 5/8-inch		2,050	2,190	2,530	8.2	1.9	E67557
Do.	do.	T	5/8-inch by 0		1,970	2,090	2,420	8.4	2.5	E67558
Robert	do.	T	Run-of-mine		1,960	2,010	2,270	9.6	4.2	B84744
Robert No. 1	do.	T	do.		1,940	2,040	2,190	9.5	4.0	E60938
Scott No. 2	do.	T	5- by 2-inch		2,030	2,080	2,260	8.6	2.2	D46655
Do.	do.	T	2- by 1-inch		2,080	2,130	2,360	7.6	2.1	D46656
Do.	do.	T	1-inch by 0		2,030	2,080	2,260	7.0	2.5	D46657
Vincent No. 4	do.	T	Run-of-mine		2,080	2,140	2,380	8.7	1.9	D83376
Do.	do.	T	1-1/4-inch by 0		1,940	2,010	2,180	9.1	3.4	E33948
Spelter										
Cliff	do.	T	Run-of-mine		1,970	2,110	2,310	8.1	3.7	F11944
Wilsonburg										
Chieftain	do.	T	8- by 1-1/4-inch		1,970	2,080	2,340	13.6	5.3	C95930
Do.	do.	T	1-1/4- by 3/4-inch		1,970	2,130	2,340	11.5	4.2	C95931
Do.	do.	T	3/4-inch by 0		2,030	2,130	2,340	10.3	4.0	C95932
Chieftain No. 1	do.	T	5-inch lump		1,950	2,020	2,220	9.2	3.4	E5237
Do.	do.	T	5- by 1-1/4-inch (W)		1,980	2,070	2,240	8.2	3.3	E5235
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,030	2,060	2,210	8.1	3.0	E5239
Do.	do.	T	3/4-inch by 0		2,010	2,060	2,230	10.8	3.7	E5240
Wolf Summit										
Gregory No. 3	do.	T	5- by 1-1/4-inch		1,870	2,070	2,360	8.0	3.7	E64946
Do.	do.	T	1-1/4-inch by 0		2,000	2,070	2,440	8.8	4.0	E64947
Paragon No. 1	do.	T	Run-of-mine		1,930	2,050	2,260	8.5	3.1	D83265
Kanawha County										
Acme										
Acme No. 2	Winifrede	T	5-inch lump		2,910+	-	-	6.3	.6	D42983
Do.	do.	T	5- by 3-inch		2,910+	-	-	7.3	.5	D42984
Do.	do.	T	3- by 2-inch		2,910+	-	-	7.8	.6	D42985
Do.	do.	T	2-inch by 0		2,910+	-	-	7.4	.6	D42986
Big Chimney										
Hanson No. 4	Lower Kittanning	T	Run-of-mine		2,570	2,650	2,730	14.8	1.9	D6910
Burnwell										
Imperial No. 2	Eagle	T	do.		2,910+	-	-	5.9	.7	B85934

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Imperial No. 6	Winifrede	T	5-inch lump		2,800	2,910+	-	4.7	.6	B85936
Do.	do.	T	5- by 2-inch		2,850	2,910+	-	5.2	.6	B85937
Do.	do.	T	2-inch by 0		2,850	2,910+	-	6.9	.5	B85938
Cannelton										
Cannelton No. 6	Lower Kittanning	M		1	2,410	2,500	2,570	5.5	.7	B14274
Do.	do.	T	4-inch lump		2,910+	-	-	6.8	.6	C4749
Do.	do.	T	4- by 1-inch		2,910+	-	-	12.3	.7	C4750
Do.	do.	T	1-inch by 0		2,890	2,910+	-	12.5	.9	C4751
Carbon										
Carbon No. 3	Winifrede	T	5-inch lump		2,850	2,910+	-	5.2	.6	B88161
Do.	do.	T	5- by 2-inch		2,910	2,910+	-	7.7	.6	B88162
Do.	do.	T	2-inch by 0		2,890	2,910+	-	9.2	.7	B88163
Carbon No. 7	Powellton	T	1-1/4- by 3/8-inch		2,430	2,590	2,670	4.0	.8	B88498
Do.	do.	M		3	2,330	2,540	2,670	2.4	.7	C2548 to C2550
Eagle Prospect	Eagle	M		2	2,910+(1)	-	-	7.6	.8	C2552 and C2553
					2,910 (1)	2,910+(1)				
Cedar Grove										
Cedar Grove	Cedar Grove	T	3-inch lump		2,360	2,410	2,750	3.8	.6	B84158
Do.	do.	T	3-inch by 0		2,260	2,380	2,680	6.3	.8	B84159
Do.	do.	T	Run-of-mine		2,520	2,570	2,730	6.4	.7	D43298
New Raymond	do.	T	do.		2,120	2,320	2,530	8.6	1.6	C46550
Cinco										
Dixport	No. 2 Gas	T	5-inch lump		2,420	2,470	2,620	2.4	.7	D72189
Do.	do.	T	5- by 3-inch		2,180	2,470	2,570	2.7	.5	D72190
Do.	do.	T	1- by 3/8-inch		2,040	2,180	2,470	5.2	.7	D72191
Do.	do.	T	3/8-inch by 0		2,180	2,360	2,520	6.4	.5	D72192
Coalburg										
Belmont No. 8	Cedar Grove	T	5-inch lump		2,840	2,910+	-	6.2	.6	E6744
Do.	do.	T	5- by 2-inch		2,780	2,870	2,910+	5.4	.4	E6745
Do.	do.	T	2-inch by 0		2,680	2,780	2,910+	5.2	.7	E6746
Crown Hill										
Crown Hill No. 3	Winifrede	T	Run-of-mine		2,850	2,910+	-	5.7	.6	B83839
Crown Hill No. 4	do.	M		3	2,910+(2)	-	-	6.4	.7	D54316 to D54318
					2,870	2,910+(1)				
Donwood										
Eureka No. 5	Lower Kittanning	T	5-inch lump		2,870	2,910+	-	4.2	.6	B67773
Do.	do.	T	5- by 2-inch		2,870	2,910+	-	6.2	.8	B67774
Do.	do.	T	2-inch by 0		2,780	2,910+	-	8.1	1.0	B67775
Drybranch										
Dorothy Glen No. 3	Winifrede	T	5-inch lump		2,760	2,800	2,910+	4.8	.9	B84265
Do.	do.	T	5- by 2-inch		2,740	2,800	2,910+	10.9	1.3	B84266
Do.	do.	T	2-inch by 0		2,810	2,870	2,910+	20.3	1.6	B84267
Dry Branch	No. 2 Gas	T	Run-of-mine		2,610	2,750	2,840	7.0	.8	B17088
Eskdale										
Laing No. 2	Winifrede	T	5- by 3-inch		-	2,910+	-	6.1	.5	B84558
Do.	do.	T	3- by 2-inch		-	2,910+	-	6.1	.6	B84559
Do.	do.	T	2-inch by 0		2,870	2,910+	-	7.3	.7	B84560
Hugheston										
Kelly Creek 3A	No. 2 Gas	T	6- by 2-inch		2,470	2,490	2,620	3.6	.7	D70696
Do.	do.	T	2-inch by 0		2,470	2,520	2,670	5.0	.6	D70697
Jochin										
Carbon No. 5	Winifrede	T	5-inch lump		2,850	2,910+	-	5.8	.6	B88164
Do.	do.	T	5- by 2-inch		2,820	2,910+	-	6.0	.6	B88165
Do.	do.	T	2-inch by 0		2,820	2,910+	-	7.5	.7	B88166
Kayford										
Kayford Cleaning Plant	do.	T	Run-of-mine		2,890	2,910+	-	6.1	.8	F11941
Do.	No. 2 Gas	T	do.		2,800	2,910+	-	6.3	1.2	F11942
Do.	do.	T	do.		2,830	2,910+	-	7.5	.8	F11943
No. 5 Block	Lower Kittanning	T	1/2-inch lump		2,910+	-	-	8.0	.6	D43304
Do.	do.	T	1/2-inch by 0		2,850	2,910	2,910+	9.7	.5	D43305
Raccoon No. 2	Winifrede	T	3-inch lump		2,910+	-	-	5.9	.6	D43306

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Kanawha County (Con.)										
Kayford										
Raccoon No. 2	Winifrede	T	3- by 1/2-inch		2,910+	-	-	8.2	.5	D43307
Do.	do.	T	1/2-inch by 0		2,870	2,910+	-	10.1	.6	D43308
Rose	do.	T	5-inch lump		2,870	2,910+	-	4.2	.6	B17363
Do.	do.	T	5- by 2-inch		2,800	2,910+	-	6.6	.5	B17364
Do.	do.	T	2-inch by 0		2,750	2,910+	-	10.0	.6	B17365
United No. 1	No. 2 Gas	T	Run-of-mine		2,680	2,750	2,820	11.7	1.5	D43299
United No. 2	Winifrede	T	6-inch lump		2,910+	-	-	4.6	.6	D43300
Do.	do.	T	6- by 3-inch		2,910+	-	-	5.6	.5	D43301
Do.	do.	T	3- by 2-inch		2,910+	-	-	6.0	.5	D43302
Do.	do.	T	2-inch by 0		2,910+	-	-	8.8	.7	D43303
Laing										
Eagle	Eagle	T	Run-of-mine		2,750	2,810	2,910+	7.9	1.1	B84564
Laing No. 1	Winifrede	T	5-inch lump		2,870	2,910+	-	4.5	.6	B84554
Do.	do.	T	5- by 3-inch		-	2,910+	-	5.3	.5	B84555
Do.	do.	T	3- by 2-inch		-	2,910+	-	6.4	.6	B84556
Do.	do.	T	2-inch by 0		2,870	2,910+	-	7.0	.5	B84557
Laing-Eagle	Eagle	T	Run-of-mine		2,840	2,910+	-	7.5	.6	E7182
Do.	do.	T	3- by 1-1/4-inch		2,720	2,820	2,910+	7.5	.6	E7184
Mammoth										
Emily	Lower Kittanning	T	5-inch lump		2,910+	-	-	5.6	.8	E8606
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	6.6	.7	E8607
Do.	do.	T	3- by 1-1/4-inch (W)		2,910+	-	-	6.6	.7	E8608
Do.	do.	T	1-1/4-inch by 0 (W)		2,870	2,910+	-	9.5	.8	E8609
Do.	do.	T	3/8-inch by 0 (W)		2,760	2,840	2,910+	18.1	.8	E8610
Hurricane No. 102	Lower Kittanning	T	5-inch lump		2,910+	-	-	5.8	.8	D53880
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	11.0	.6	D53881
Do.	do.	T	3- by 1-1/4-inch (W)		2,910+	-	-	12.8	.5	D53882
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,910+	-	-	12.0	.6	D53883
Do.	do.	T	3/8-inch by 0		2,910+	-	-	17.9	.6	D53884
Notomine										
Carbon No. 10	Winifrede	T	5-inch lump		2,840	2,890	2,910+	4.5	.7	B12272
Do.	do.	T	5- by 2-inch		2,830	2,910	2,910+	5.1	.7	B12273
Do.	do.	T	2-inch by 0		2,740	2,860	2,910+	6.1	.7	B12274
Do.	do.	M		4	2,870	2,910+(3) 2,890 (1)	- 2,910+(1)	4.6	.7	B12308 to B12311
Carbon No. 12	do.	T	5-inch lump		2,910+	-	-	3.9	.5	D71733
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	4.5	.5	D71734
Do.	do.	T	3- by 1-1/2-inch (W)		2,910+	-	-	5.1	.5	D71735
Do.	do.	T	1-1/2- by 3/8-inch (W)		2,910+	-	-	5.3	.5	D71736
Do.	do.	T	2-inch by 0 (W)		2,760	2,910+	-	5.4	.5	D90448
Olcott										
Briar Creek	do.	T	5-inch lump		2,910+	-	-	7.7	.5	B84561
Do.	do.	T	5- by 2-1/2-inch		2,800	2,870	2,910+	7.0	.7	B84562
Do.	do.	T	2-1/2-inch by 0		2,730	2,820	2,910+	16.2	.8	B84563
Dorothy Dale	do.	T	5-inch lump		2,620	2,700	2,780	6.0	.6	D46301
Do.	do.	T	5- by 2-inch		2,800	2,870	2,910+	7.6	.6	D46302

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Do.	do.	T	2-inch by 0		2,680	2,760	2,860	12.2	.7	D46303
Do.	Lower Kittanning	T	5-inch lump		2,660	2,780	2,910+	4.3	.6	D92265
Do.	do.	T	5- by 2-inch		2,630	2,710	2,910+	4.2	.6	D92266
Do.	do.	T	2-inch by 0		2,680	2,820	2,910+	9.9	.8	D92267
Reynolds	Winifrede	T	5-inch lump		2,690	2,790	2,910+	3.5	.7	B17007
Do.	do.	T	5- by 3-inch		2,870	2,910+	-	6.5	.7	B17008
Do.	do.	T	3- by 1-1/4-inch		2,740	2,870	2,930+	7.5	.7	B17009
Do.	do.	T	1-1/4-inch by 0		2,590	2,740	2,820	7.6	.8	B17010
Queen Shoals										
Martha	Lower Kittanning	T	5-1/2-inch lump		2,660	2,720	2,910	5.1	1.1	E7057
Do.	do.	T	5-1/2- by 2-1/4-inch		2,630	2,710	2,820	6.9	1.1	E7058
Do.	do.	T	2-1/4-inch by 0		2,570	2,620	2,800	11.2	1.3	E7059
Quick										
Shamblin	do.	T	Run-of-mine		2,680	2,760	2,840	15.0	2.0	D71241
Rensford										
Dana	No. 2 Gas	T	6-inch lump		2,330	2,440	2,750	2.0	.7	E45446
Do.	do.	T	6- by 4-inch (W)		2,390	2,500	2,810	2.6	.7	E45447
Do.	do.	T	4- by 2-inch (W)		2,670	2,770	2,860	3.4	.8	E45448
Do.	do.	T	2- by 1-1/4-inch (W)		2,730	2,820	2,880	3.9	.8	E45449
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,740	2,840	2,900	4.2	.8	E45450
Do.	do.	T	3/8-inch by 0 (W)		2,800	2,850	2,910	6.1	.8	E45451
Point Lick No. 4	do.	M		3	2,300	2,530	2,710	2.6	.8	A74954 to A74956
Sharon										
Wymar	Lower Kittanning	T	5-1/2-inch lump		-	2,920+	-	3.3	.8	B17292
Do.	do.	T	5-1/2- by 2-3/4-inch		-	2,910+	-	7.1	.7	B17293
Do.	do.	T	2-3/4-inch by 0		-	2,910+	-	9.5	.9	B17294
Ward										
Kelly's Creek No. 1	Cedar Grove	T	5-inch lump		2,770	2,840	2,910+	3.7	.7	B85831
Do.	do.	T	5- by 2-inch		2,470	2,570	2,770	5.7	.8	B85832
Do.	do.	T	1/4-inch by 0		2,180	2,460	2,690	9.0	1.3	B85834
Kelly's Creek No. 2 B	Winifrede	T	6-inch lump		2,890	2,910+	-	7.2	.9	D71237
Do.	do.	T	6- by 2-inch		2,910+	-	-	7.6	1.0	D71238
Do.	do.	T	2-inch by 0		2,910+	-	-	13.2	1.2	D71239
Kelly's Creek No. 3 B	No. 2 Gas	T	Run-of-mine		2,470	2,540	2,570	5.2	.8	D71240
Kelly's Creek No. 4 C	Cedar Grove	T	5-inch lump		2,430	2,540	2,730	4.1	.6	B85233
Do.	do.	T	5- by 2-inch		2,570	2,670	2,760	4.7	.8	B85234
Do.	do.	T	2-inch by 0		2,590	2,690	2,780	6.8	.8	B85235
Kelly's Creek No. 5	Coalburg	T	do.		2,910+	-	-	14.4	.7	D71104
Wevaco										
Carbon No. 9	Powellton	T	Run-of-mine		2,630	2,740	2,830	2.9	.7	B12275
Do.	do.	M		4	2,680 (3)	2,910+(1) 2,800 (3)	2,910+(2) 2,860 (1)	2.5	.8	B12313 to B12316
Winifrede										
Winco	No. 2 Gas	T	Run-of-mine		2,150	2,520	2,640	5.4	1.2	D90449
Winifrede No. 1	Winifrede	T	5-inch lump		2,810	2,910+	-	4.0	.6	B17162
Do.	do.	T	5- by 2-3/4-inch		2,790	2,910+	-	7.4	.6	B17163
Do.	do.	T	2-3/4- by 1-1/2-inch		2,770	2,910+	-	8.7	.5	B17164
Do.	do.	T	1-1/2-inch by 0		2,770	2,910+	-	9.0	.6	B17165
Winifrede No. 2	do.	T	5-inch lump		2,310	2,580	2,770	4.0	.8	B17118
Do.	do.	T	5- by 2-inch		2,310	2,430	2,570	8.6	.8	B17119
Do.	do.	T	2-inch by 0		2,570	2,720	2,850	8.2	.7	B17120
Lewis County										
Deanville										
Deanville No. 1	Pittsburgh	T	Run-of-mine		1,940	2,000	2,380	8.6	3.6	D39608
McWhorter No. 2	do.	T	do.		1,960	2,100	2,310	10.6	2.7	F14651
Weston No. 1	do.	T	do.		1,970	2,080	2,380	8.4	2.8	F15189
Jackson's Mill										
Jackson Mill	do.	T	2-1/2- by 1-1/2-inch		2,030	2,170	2,230	7.3	3.6	E22301
Do.	do.	T	1-1/2-inch by 0		2,010	2,230	2,470	7.9	3.4	E22302

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Lewis County (Con.)										
Jackson's Mill										
Jackson Mill	Pittsburgh	T	Run-of-mine		1,920	2,090	2,410	9.5	4.0	F15436
Jane Lew										
Goodhope	do.	T	2- by 1-1/4-inch		1,920	2,130	2,470	9.7	3.8	D69000
Do.	do.	T	1-1/4-inch by 0		1,920	2,230	2,520	11.2	3.3	D69001
Do.	do.	T	Run-of-mine		1,940	2,000	2,420	9.4	4.2	D40250
Do.	Redstone	T	do.		1,990	2,190	2,430	9.1	2.8	F15084
McCann's Run	Pittsburgh	T	do.		2,000	2,130	2,470	10.7	4.3	D69002
Walkersville										
Erie No. 5	Redstone	T	Run-of-mine (w)		1,930	2,080	2,380	7.2	3.4	E77690
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,000	2,090	2,420	6.6	3.3	E77691
Do.	do.	T	3/8-inch by 0		2,040	2,150	2,440	7.5	3.1	E77692
Weston										
Joyce No. 3	do.	T	Run-of-mine		1,990	2,100	2,400	11.8	4.0	E42189
Keeley No. 4	Pittsburgh	T	Run-of-mine (W)		1,990	2,070	2,430	7.4	3.0	E77505
Murphy	Redstone	T	Run-of-mine		2,040	2,100	2,380	9.5	3.5	D48059
Weston No. 1	Pittsburgh	T	do.		1,910	2,040	2,420	7.8	3.4	D92794
Lincoln County										
Branchland										
H. G. Jones	Stockston	M		3	2,740	2,810	2,890	12.4	2.0	D4691 to D4693
Logan County										
Accoville										
Amherst No. 3	Cedar Grove	T	5-inch lump		2,580	2,670	2,750	6.6	1.5	B91875
Do.	do.	T	5- by 2-3/4-inch		2,850	2,910+	-	8.0	1.1	B91876
Do.	do.	T	2-3/4- by 1-1/4-inch		2,610	2,750	2,840	9.2	1.3	B91877
Do.	do.	T	1-1/4-inch by 0		2,310	2,560	2,700	8.5	1.7	B91878
Amherst No. 3 A	Eagle	T	5-inch lump		2,880	2,910+	-	3.5	.5	B91983
Do.	do.	T	5- by 2-3/4-inch		2,910+	-	-	3.7	.5	B91984
Do.	do.	T	2-3/4- by 1-1/4-inch		2,880	2,910+	-	5.6	.5	B91985
Do.	do.	T	1-1/4-inch by 0		2,860	2,910+	-	11.0	.7	B91986
Amherstdale										
Amherst No. 1 A	do.	T	5- by 2-inch (W)		2,710	2,840	2,910+	5.8	.6	E46895
Do.	do.	T	2- by 1-1/4-inch (W)		2,840	2,910+	-	5.7	.6	E46896
Do.	do.	T	2-inch by 0 (W)		2,730	2,860	2,910+	6.7	.8	E46897
Amherst No. 1 C	Chilton	T	5- by 2-inch (W)		2,720	2,870	2,910+	5.1	.7	E46898
Do.	do.	T	2- by 1-1/4-inch (W)		2,710	2,860	2,910+	5.9	.7	E46899
Do.	do.	T	2-inch by 0		2,710	2,790	2,910	7.1	.8	E46900
Guyan No. 1	Cedar Grove	T	5-inch lump		2,890	2,910+	-	7.4	1.1	E39100
Do.	do.	T	5- by 3-inch (W)		2,780	2,890	2,910+	7.1	1.1	E39101
Do.	do.	T	3- by 2-inch (W)		2,800	2,870	2,910+	7.1	1.1	E39102
Do.	do.	T	2- by 1-1/4-inch (W)		2,730	2,810	2,910+	7.4	1.2	E39103
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,700	2,750	2,850	6.9	1.3	E39104
Do.	do.	T	1/4-inch by 0 (W)		2,460	2,560	2,690	13.7	1.5	E39105

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Guyan No. 3	Chilton	T	5-inch lump		2,470	2,520	2,620	3.4	.7	D45726	
Do.	do.	T	5- by 3-inch (W)		2,470	2,590	2,780	4.6	.5	D45727	
Do.	do.	T	3- by 2-inch (W)		2,570	2,730	2,890	4.8	.5	D45728	
Do.	do.	T	2-inch by 0 (W)		2,780	2,840	2,910+	6.4	.6	D45729	
Guyan Eagle	Cedar Grove	T	5-inch lump		2,810	2,850	2,920	7.0	1.2	B10056	
Do.	do.	T	5- by 2-1/2-inch		2,730	2,800	2,890	6.7	1.3	B10057	
Do.	do.	T	2-1/2- by 1-1/4-inch		2,660	2,710	2,740	7.1	1.6	B10058	
Do.	do.	T	1-1/4-inch by 0		2,520	2,670	2,730	8.9	1.7	B10059	
Do.	Chilton	T	5- by 2-1/2-inch		2,600	2,710	2,810	5.3	.7	B10795	
Do.	do.	T	2-1/2- by 1-1/4-inch		2,810	2,870	2,910+	5.8	.7	B10796	
Do.	do.	T	1-1/4-inch by 0		2,500	2,680	2,810	7.5	.6	B10797	
Big Creek											
Big Creek	Alma	T	8-inch lump		1,990	2,160	2,350	5.3	2.2	E99972	
Do.	do.	T	8- by 2-inch		2,080	2,190	2,390	5.6	2.1	E99973	
Do.	do.	T	2-inch by 0		2,090	2,230	2,400	8.4	2.3	E99974	
Blair											
Guyan No. 5	Cedar Grove	T	5-inch lump		2,760	2,890	2,910+	6.7	.8	E37516	
Do.	do.	T	5- by 3-inch (W)		2,780	2,850	2,910+	6.8	.9	E37517	
Do.	do.	T	3- by 2-inch (W)		2,750	2,870	2,910+	6.6	1.1	E37518	
Do.	do.	T	2- by 1-1/4-inch (W)		2,730	2,810	2,890	6.9	1.0	E37519	
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,700	2,760	2,870	6.4	1.2	E37520	
Do.	do.	T	1/4-inch by 0 (W)		2,460	2,520	2,750	9.3	1.1	E37521	
Braeholm											
Riley	Eagle	T	3-inch lump		2,910+	-	-	3.7	.6	D48610	
Do.	do.	T	3-inch by 0		2,860	2,910+	-	11.7	.7	D48611	
Chapmanville											
Black Diamond	Alma	T	Run-of-mine		2,210	2,490	2,660	7.4	1.9	D48205	
Chapmanville No. 1	do.	T	do.		2,050	2,260	2,570	6.3	1.9	D48917	
Chapmanville No. 2	do.	T	do.		2,550	2,610	2,660	7.3	1.5	D48918	
Dixie Creek	do.	T	5- by 2-inch		2,330	2,510	2,680	5.9	1.5	D92916	
Do.	do.	T	2-inch by 0		2,100	2,340	2,490	7.0	1.9	D92917	
Winisle	Winifrede	T	6-inch lump		2,730	2,790	2,910	5.2	1.2	B92212	
Do.	do.	T	6- by 2-3/4-inch		2,580	2,670	2,780	6.9	1.5	B92213	
Do.	do.	T	2-3/4-inch by 0		2,170	2,480	2,570	7.1	1.8	B92214	
Winisle No. 1	do.	T	5-inch lump		2,540	2,670	2,810	4.3	1.3	E54438	
Do.	do.	T	5- by 2-inch		2,650	2,740	2,900	5.9	1.3	E54439	
Do.	do.	T	2-inch by 0		2,550	2,670	2,740	8.1	1.6	E54440	
Christian											
McCall No. 1	Cedar Grove	T	2-3/4-inch lump		2,870	2,910+	-	8.5	1.0	D41266	
Do.	do.	T	2-3/4-inch by 0		2,570	2,650	2,700	10.1	1.6	D41267	
Do.	Eagle	T	2-3/4-inch lump		2,910+	-	-	9.0	.9	D41268	
Do.	do.	T	2-3/4-inch by 0		2,840	2,910+	-	9.1	1.0	D41269	
Dabney											
Dabney	do.	T	5-inch lump		2,640	2,790	2,910+	3.0	.6	B10158	
Do.	do.	T	5- by 1-1/4-inch		2,640	2,770	2,910+	5.3	.7	B10159	
Do.	do.	T	1-1/4-inch by 0		2,650	2,700	2,820	6.8	.6	B10160	
Dehue											
Dehue	do.	M		2	2,380	2,690	2,830	4.1	.7	A69663 and A69664	
Emmett											
Elk Creek No. 1	Powellton	M		4	2,860 (2)	2,910+	-	2.9	.6	B43931 to B43934	
Do.	do.	T	7- by 3-inch		-	2,910+	-	3.1	.7	B47087	
Do.	do.	T	3- by 2-inch		2,730	2,850	2,910+	3.8	.6	B47088	
Do.	do.	T	2-inch by 0		2,550	2,660	2,860	4.5	.8	B47089	
Elk Creek No. 4	Eagle	T	5-inch lump		2,910+	-	-	2.9	.6	D47025	
Do.	do.	T	5- by 3-inch (W)		2,910+	-	-	4.1	.5	D47026	
Do.	do.	T	3-inch by 0 (W)		2,760	2,830	2,890+	6.0	.6	D47027	
Ethel											
Ethel No. 2	Chilton	T	12- by 6-inch (W)		2,660	2,730	2,890	6.2	.6	E98730	
Do.	do.	T	6- by 3-inch (W)		2,760	2,820	2,910+	5.6	.6	E98731	
Do.	do.	T	3- by 1-1/4-inch (W)		2,770	2,840	2,910+	5.3	.6	E98732	
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,760	2,840	2,910+	4.9	.6	E98733	

1/ M, mine sample; T, tipple sample 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Logan County (Con.)										
Ethel										
Ethel No. 2	Chilton	T	1/4-inch by 0		2,500	2,620	2,810	8.7	.7	E98734
Freeze Fork No. 2	do.	T	5-inch lump		2,490	2,510	2,730	2.9	.5	B68103
Do.	do.	T	5- by 2-inch		2,480	2,600	2,810	4.2	.6	B68104
Do.	do.	T	2-inch by 0		2,460	2,570	2,830	8.3	.5	B68105
Wanda No. 1	do.	T	5-inch lump		2,650	2,750	2,910	5.5	.7	D48200
Do.	do.	T	5- by 2-inch		2,910+	-	-	9.3	.6	D48201
Do.	do.	T	2-inch by 0		2,910+	-	-	12.9	.7	D48202
Fanco										
Amherst No. 2	Eagle	T	5-inch lump		2,640	2,730	2,820	3.8	.7	B93030
Do.	do.	T	5- by 3-inch		2,800	2,910+	-	5.2	.6	B93031
Garnette										
Jane Ann No. 2	Cedar Grove	T	5-inch lump		2,820	2,910+	-	4.8	.6	F4141
Do.	do.	T	5- by 2-inch (W)		2,770	2,910	2,910+	6.6	.6	F4142
Do.	do.	T	2- by 1-1/4-inch (W)		2,870	2,910+	-	7.1	.6	F4143
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,880	2,910+	-	5.9	.7	F4144
Do.	do.	T	1/4-inch by 0		2,340	2,450	2,580	6.6	.9	F4145
Henlawson										
Merrill	Cedar Grove	T	6-inch lump		2,680	2,770	2,900	6.0	1.2	B10237
Do.	do.	T	6- by 3-inch		2,650	2,700	2,800	7.1	1.2	B10245
Do.	do.	T	3- by 1-1/2-inch		2,560	2,700	2,800	7.5	1.1	B10246
Do.	do.	T	1-1/2-inch by 0		2,200	2,510	2,650	8.5	1.6	B10247
Do.	Alma	T	5-inch lump		2,080	2,130	2,470	4.3	1.3	D45918
Do.	do.	T	5- by 3-inch		2,050	2,130	2,470	6.6	1.6	D45919
Do.	do.	T	3- by 2-inch		2,020	2,130	2,450	9.9	1.9	D45920
Do.	do.	T	2-inch by 0		1,970	2,150	2,420	9.0	1.9	D45921
Hetzel										
Hetzel	Chilton	T	5- by 3-inch		2,400	2,470	2,560	4.2	.7	B10248
Do.	do.	T	3- by 1-1/2-inch		2,390	2,510	2,700	4.8	.6	B10249
Do.	do.	T	Run-of-mine		2,400	2,470	2,720	4.9	.6	B10250
Holden										
Island Creek No. 1	Cedar Grove	T	do.		2,320	2,350	2,540	5.1	1.5	A55150
Do.	do.	T	5-inch lump		2,730	2,830	2,910+	6.3	1.1	D72673
Do.	do.	T	5- by 2-inch (W)		2,420	2,470	2,620	7.7	1.7	D72674
Do.	do.	T	2- by 1-1/4-inch (W)		2,340	2,500	2,600	6.8	1.5	D72675
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,360	2,540	2,640	7.0	1.5	D72676
Do.	do.	T	1/4-inch by 0		2,250	2,510	2,660	11.5	1.4	D72677
Island Creek No. 7	do.	T	1-1/4-inch lump		2,380	2,470	2,710	6.1	1.2	A55123
Do.	do.	T	1-1/4-inch by 0		2,170	2,300	2,470	6.2	1.5	A55122
Do.	do.	T	5-inch lump		2,620	2,840	2,910+	7.0	1.3	D72757
Do.	do.	T	5- by 2-inch (W)		2,730	2,890	2,910+	7.3	1.2	D72758
Do.	do.	T	2- by 1-1/4-inch (W)		2,420	2,570	2,730	5.8	1.4	D72759
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,470	2,620	2,870	6.3	1.3	D72760
Do.	do.	T	1/4-inch by 0		2,420	2,500	2,550	9.3	1.4	D72761
Island Creek No. 8	do.	T	Run-of-mine		2,340	2,420	2,560	8.1	1.1	A55053
Do.	do.	T	2-inch lump		2,210	2,320	2,390	8.4	1.8	A55055
Do.	do.	T	2-inch by 0		2,380	2,560	2,640	5.9	1.3	A55054

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Island Creek No. 14	do.	T	4-inch lump	2,460	2,490	2,600	5.1	1.0	A55259
Do.	do.	T	4- by 1-1/4-inch	2,250	2,340	2,640	5.0	1.3	A55258
Do.	do.	T	1-1/4-inch by 0	2,170	2,260	2,380	6.4	1.3	A55260
Do.	do.	T	5-inch lump	2,740	2,820	2,860	6.5	.8	B9862
Do.	do.	T	5- by 3-inch	2,500	2,600	2,740	6.0	.8	B9864
Do.	do.	T	3- by 2-inch	2,430	2,530	2,660	6.7	1.0	B9866
Do.	do.	T	2-inch by 0	2,220	2,300	2,500	7.7	1.1	B9868
Island Creek No. 20	do.	T	3-inch lump	2,430	2,560	2,740	5.3	1.0	B9863
Do.	do.	T	3- by 2-inch	2,250	2,360	2,600	5.6	1.2	B9865
Do.	do.	T	2-inch by 0	2,150	2,230	2,400	6.8	1.4	B9867
Island Creek No. 21	do.	T	Run-of-mine	2,330	2,420	2,600	6.0	1.3	A55186
Do.	do.	T	5-inch lump	2,320	2,360	2,600	6.1	1.4	B9985
Do.	do.	T	5- by 2-inch	2,210	2,240	2,510	7.5	1.8	B9986
Do.	do.	T	2-inch by 0	2,140	2,230	2,330	6.9	2.1	B9987
Island Creek No. 22	do.	T	5-inch lump	2,870	2,910+	-	4.3	.6	D72678
Do.	do.	T	5- by 2-inch (W)	2,730	2,890	2,910	4.6	.6	D72679
Do.	do.	T	2- by 1-1/4-inch (W)	2,730	2,860	2,890	5.1	.5	D72680
Do.	do.	T	1-1/4- by 1/4-inch (W)	2,780	2,890	2,910+	5.2	.6	D72681
Do.	do.	T	1/4-inch by 0	2,420	2,540	2,640	8.2	.6	D72682
Island Creek No. 27	do.	T	5-inch lump	2,620	2,690	2,840	3.9	.6	E31986
Do.	do.	T	5- by 2-inch (W)	2,590	2,710	2,850	4.9	.6	E31987
Do.	do.	T	2- by 1-1/4-inch (W)	2,530	2,650	2,790	4.9	.5	E31988
Do.	do.	T	1-1/4- by 1/4-inch (W)	2,690	2,770	2,910+	5.4	.6	E31989
Do.	do.	T	1/4-inch by 0 (W)	2,750	2,810	2,910+	5.4	.6	E31990
Huffville									
Clean Eagle	Eagle	T	5-inch lump	2,710	2,870	2,910	4.8	.6	B11028
Do.	do.	T	5- by 2-inch	2,830	2,910+	-	4.6	.5	B11029
Do.	do.	T	2-inch by 0	2,740	2,820	2,910	5.4	.6	B11030
Kistler									
Buffalo No. 3	No. 2 Gas	T	7- by 2-inch	2,810	2,890	2,910+	6.5	.7	E39653
Do.	do.	T	2-inch by 0	2,700	2,770	2,890	7.7	.7	E39654
Buffalo Chilton	Chilton	T	5-inch lump	2,840	2,860	2,910+	6.1	1.0	B10099
Do.	do.	T	5- by 2-1/2-inch	2,760	2,820	2,890	6.9	1.0	B10100
Do.	do.	T	2-1/2- by 1-1/2-inch	2,750	2,820	2,910+	7.4	1.0	B10101
Do.	do.	T	1-1/2-inch by 0	2,350	2,540	2,630	7.2	1.4	B10102
Kistler No. 61	Eagle	T	Run-of-mine	2,820	2,910+	-	7.0	.6	B91451
Kistler No. 62	Cedar Grove	T	5-inch lump	2,720	2,800	2,900	4.7	.9	E38126
Do.	do.	T	5- by 2-inch	2,690	2,780	2,860	7.9	1.1	E38127
Do.	do.	T	2-inch by 0	2,310	2,510	2,620	6.9	1.4	E38128
Landville									
Mallory No. 2	Eagle	T	2-inch lump	2,750	2,880	2,910+	7.7	.8	B11769
Do.	do.	T	2-inch by 0	2,650	2,750	2,830	6.4	.8	B11770
Mallory No. 5	Alma	T	2-inch lump	2,630	2,700	2,770	4.1	.5	B11771
Do.	do.	T	2-inch by 0	2,270	2,420	2,740	4.9	.7	B11772
Logan									
Hutchinson No. 8	Eagle	T	2- by 1/8-inch (W)	2,710	2,820	2,910+	3.8	.7	E36899
Do.	do.	T	1/8-inch by 0	2,370	2,440	2,620	14.7	.6	E36900
Hutchinson No. 9	do.	T	5- by 3/16-inch (W)	2,680	2,730	2,850	6.0	.7	D80247
Do.	do.	T	3/16-inch by 0	2,520	2,620	2,770	17.0	.5	D80248
Mellville No. 9	do.	T	3- by 1/8-inch (W)	2,890	2,910+	-	3.5	.8	E36630
Do.	do.	T	1/8-inch by 0	2,370	2,500	2,790	10.9	.6	E36631
Mellville No. 11	do.	T	4- by 1/4-inch (W)	2,910+	-	-	5.1	.7	D80682
Do.	do.	T	1/4-inch by 0	2,390	2,440	2,630	14.6	.6	D80683
Snap Creek	Alma	T	5- by 2-3/4-inch	2,080	2,210	2,440	5.9	2.0	B91067
Do.	do.	T	2-3/4-inch by 0	2,130	2,370	2,510	12.4	2.4	B91068
Wilson No. 3	Eagle	T	Run-of-mine	2,600	2,720	2,810	8.7	.8	B10798
Wilson No. 4	Chilton	T	do.	2,470	2,580	2,700	8.3	1.2	B90727
Lorado									
Saunders No. 5	do.	T	5-inch lump	2,660	2,790	2,910+	4.0	.6	E11664
Do.	do.	T	5- by 3-inch (W)	2,770	2,850	2,910+	4.6	.5	E11665
Do.	do.	T	3-inch by 0 (W)	2,570	2,710	2,840	5.7	.6	E11666

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State county town and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Logan County (Con.)										
Lundale										
Lundale	Chilton	T	5-inch lump		2,910	2,910+	-	4.9	.7	B92135
Do.	do.	T	5- by 3-inch		2,910	2,910+	-	5.7	.7	B92136
Do.	do.	T	3- by 2-inch		2,910+	-	-	6.1	.6	B92137
Do.	do.	T	2- by 1-1/4-inch		2,910+	-	-	5.5	.7	B92138
Do.	do.	T	1-1/4-inch by 0		2,910	2,910+	-	6.6	.7	B92139
Do.	Powellton	T	5- by 2-inch (W)		2,890	2,910+	-	5.6	.6	F4602
Do.	do.	T	2-inch by 0 (W)		2,840	2,910+	-	5.1	.7	F4603
Lyburn										
Avis Eagle	Eagle	T	6-inch lump		2,390	2,450	2,810	3.2	.7	B10911
Do.	do.	T	6- by 2-3/4-inch		2,780	2,870	2,910+	4.6	.6	B10912
Do.	do.	T	2-3/4- by 2-inch		2,740	2,810	2,910	5.0	.8	B10913
Do.	do.	T	2- by 3/4-inch		2,740	2,810	2,900	5.1	.7	B10914
Do.	do.	T	3/4-inch by 0		2,340	2,550	2,770	7.7	.7	B10915
Lyburn	do.	M		2	2,820	2,900+(1) 2,840 (1)	- 2,940+(1)	5.9	.6	A83087 and A83088
Lyburn No. 3	Cedar Grove	T	2-inch lump		2,890	2,910+	-	6.8	1.0	D45181
Do.	do.	T	2- by 1-1/4-inch		2,780	2,810	2,910+	7.5	1.2	D45182
Do.	do.	T	1-1/4-inch by 0		2,500	2,540	2,650	8.5	1.7	D45183
MacBeth										
MacBeth	No. 2 Gas	T	5-inch lump		2,700	2,780	2,910+	6.9	.6	B68055
Do.	do.	T	5-inch by 0		2,650	2,750	2,910+	9.4	.6	B68056
Mallory										
Mallory No. 1	Cedar Grove	T	2-3/4-inch lump		2,530	2,620	2,740	10.5	1.6	B11907
Do.	do.	T	2-3/4-inch by 0		2,410	2,550	2,600	10.0	1.7	B11908
Mallory No. 3	Eagle	T	2-inch lump		2,580	2,730	2,740+	4.1	.7	B11808
Do.	do.	T	2-inch by 0 (W)		2,780	2,870	2,910+	8.2	.7	B11809
Do.	do.	M		4	2,770 (3)	2,910+(1) 2,850 (3)	2,910+(2) 2,860 (1)	4.9	.8	B12383 to B12386
Mallory No. 4	Alma	T	2-3/4-inch lump		2,790	2,860	2,910	3.6	.5	B11810
Do.	do.	T	2-3/4-inch by 0 (W)		2,600	2,710	2,840	4.3	.5	B11811
Man										
Eagle No. 1	Eagle	T	Run-of-mine		2,860	2,910	2,910+	6.5	.7	D48612
Monaville										
Island Creek No. 11	Cedar Grove	T	do.		2,350	2,400	2,630	5.7	.9	A55447
Island Creek No. 12	do.	T	do.		2,460	2,560	2,680	5.4	.9	A55382
Monclo										
Boone No. 2	Chilton	M		4	2,810	2,880	2,970+(2) 2,900 (2)	5.3	.7	A73513 to A73516
Do.	do.	T	8- by 5-inch (W)		2,680	2,750	2,890	5.7	.7	E92679
Do.	do.	T	5- by 3-inch (W)		2,770	2,880	2,910+	5.7	.7	E92680
Do.	do.	T	3- by 2-inch (W)		2,770	2,910	2,910+	5.8	.8	E92681
Do.	do.	T	2- by 1-1/4-inch (W)		2,780	2,900	2,910+	6.1	.8	E92682
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,730	2,850	2,910+	7.0	.8	E92683
Do.	do.	T	3/8-inch by 0 (W)		2,670	2,770	2,890	12.1	.8	E92684
Omar										
Micca No. 3	Cedar Grove	T	5-inch lump		2,740	2,860	2,910+	4.2	.7	B68208

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Do.	do.	T	5- by 2-3/4-inch		2,730	2,800	2,910+	4.6	.7	B68209
Do.	do.	T	2-3/4-inch by 0		2,570	2,660	2,810	5.3	.7	B68210
Omar No. 4	do.	T	3-inch lump		2,600	2,700	2,760	6.2	.9	B10748
Do.	do.	T	3- by 1-1/4-inch		2,420	2,560	2,690	6.3	1.1	B10749
Do.	do.	T	1-1/4- by 1/4-inch		2,160	2,390	2,460	7.4	1.5	B10750
Do.	do.	T	1/4-inch by 20-mesh		2,230	2,260	2,460	10.5	1.6	B10751
Omar No. 5	do.	T	5-inch lump		2,750	2,810	2,910	5.1	.9	B10693
Do.	do.	T	5- by 2-1/2-inch		2,460	2,610	2,750	5.6	1.1	B10694
Do.	do.	T	2-1/2- by 1-3/4-inch		2,390	2,470	2,620	5.2	1.1	B10695
Do.	do.	T	1-3/4-inch by 0		2,210	2,340	2,590	7.1	1.2	B10696
Do.	do.	M		3	2,470	2,540	2,800	5.6	.7	D86704 to D86706
Do.	Alma	M		3	2,400	2,540	2,780	6.3	.8	D86708 to D86710
Peach Creek										
Crooked Creek	do.	T	Run-of-mine		2,210	2,480	2,620	9.9	1.6	D45492
Peach Creek No. 5	Chilton	T	2-inch lump (W)		2,910+	-	-	5.2	.6	E37037
Do.	do.	T	2- by 1-1/4-inch (W)		2,860	2,910+	-	5.3	.7	E37038
Do.	do.	T	1-1/4- by 1/8-inch (W)		2,750	2,850	2,910+	4.8	.7	E37039
Do.	do.	T	1/8-inch by 0		2,770	2,860	2,910+	9.9	.7	E37040
Pecks Mill										
Ball & Raines No. 1	do.	T	Run-of-mine		2,910+	-	-	7.1	.6	D48206
Bell	Alma	T	do.		2,080	2,310	2,520	6.5	1.7	D46305
Craddock & Nelson	do.	T	do.		2,180	2,520	2,620	6.1	1.3	D46304
Mill Creek	Eagle	T	do.		2,730	2,780	2,860	7.6	.9	D46499
Nichols No. 1	Chilton	T	do.		2,910+	-	-	6.8	.5	D48207
Sharon No. 1	Eagle	T	do.		2,620	2,700	2,760	4.9	.9	D46306
Rita										
Chafin	Cedar Grove	T	6-inch lump		2,790	2,880	2,910	6.8	1.0	D81084
Do.	do.	T	6- by 3-inch		2,840	2,910+	-	7.8	1.1	D81085
Do.	do.	T	3- by 1-1/4-inch		2,580	2,680	2,780	8.4	1.5	D81086
Do.	do.	T	1-1/4-inch by 0		2,360	2,520	2,700	8.1	1.8	D81087
Chafin No. 1	do.	T	5- by 3-inch		2,710	2,800	2,910	8.1	1.0	E70329
Do.	do.	T	3- by 1-1/4-inch		2,590	2,690	2,820	8.5	1.2	E70330
Do.	do.	T	1-1/4-inch by 0		2,490	2,610	2,780	7.6	1.2	E70331
Rita	do.	T	Run-of-mine		2,400	2,490	2,600	7.2	1.3	B10244
Do.	Eagle	T	5-inch lump		2,910+	-	-	6.2	.6	D44786
Do.	do.	T	5- by 2-inch		2,910+	-	-	6.1	.8	D44787
Do.	do.	T	2-inch by 0		2,860	2,910+	-	7.0	.7	D44788
Rossmore										
Rossmore	Cedar Grove	T	5-inch lump		2,790	2,910	2,910+	4.0	.6	B90431
Do.	do.	T	5- by 2-inch		2,710	2,790	2,910+	4.4	.6	B90432
Do.	do.	T	2-inch by 0		2,570	2,700	2,790	4.3	.5	B90433
Sarah Ann										
Crystal Block No. 4	do.	T	5-inch lump		2,770	2,850	2,910+	6.2	.8	B90383
Do.	do.	T	5- by 3-inch		2,770	2,850	2,910+	6.9	.8	B90384
Do.	do.	T	3- by 2-inch		2,680	2,760	2,910+	6.8	1.0	B90385
Do.	do.	T	2-inch by 0		2,570	2,680	2,850	8.7	1.0	B90386
Slagle										
McGregor No. 2	Chilton	T	Run-of-mine		2,490	2,540	2,820	6.8	.6	B91295
Do.	do.	T	6-inch lump		2,440	2,470	2,630	3.3	.7	E47055
Do.	do.	T	6- by 2-inch (W)		2,710	2,760	2,910	4.2	.7	E47056
Do.	do.	T	2- by 1-1/4-inch (W)		2,840	2,910+	-	4.5	.7	E47057
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,880	2,910+	-	5.9	.7	E47058
Do.	do.	T	2-inch by 0 (W)		2,720	2,850	2,910+	5.2	.7	E47059
Shamrock										
Hagy	Eagle	M		1	2,740	2,890	2,910+	6.0	1.1	B11884
Shamrock	do.	T	6-inch lump		2,830	2,870	-	4.6	.8	B68100
Do.	do.	T	6- by 2-1/2-inch		-	2,870+	-	6.1	.8	B68101
Do.	do.	T	2-1/2-inch by 0		2,750	2,840	2,900+	8.0	1.0	B68102
Stollings										
Fort Branch	Chilton	T	6-inch lump		2,760	2,810	2,910+	8.3	.8	C44845
Do.	do.	T	6- by 3-inch		2,840	2,910+	-	8.9	.7	C44846

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Logan County (Con.)										
Stollings										
Fort Branch	Chilton	T	3-inch by 0		2,780	2,840	2,910+	16.5	.8	C44847
Stowe										
Guyan No. 4	do.	T	6- by 3-inch (W)		2,910+	-	-	6.3	.6	E39106
Do.	do.	T	3- by 2-inch (W)		2,890	2,910+	-	6.7	.6	E39107
Do.	do.	T	2- by 1/4-inch (W)		2,870	2,910+	-	5.9	.7	E39108
Do.	do.	T	1/4-inch by 0 (W)		2,650	2,760	2,890	9.1	.8	E39109
Taplin										
Taplin	Cedar Grove	T	8- by 2-inch		2,690	2,770	2,910	8.6	1.2	E99975
Do.	do.	T	2- by 1-1/4-inch		2,520	2,660	2,780	9.4	1.6	E99976
Do.	do.	T	1-1/4-inch by 0		2,470	2,580	2,660	8.3	1.6	E99977
Verdunville										
Island Creek No. 28	Eagle	T	5- by 1/8-inch (W)		2,520	2,640	2,840	3.3	.8	D72896
Do.	do.	T	1/8-inch by 0		2,340	2,470	2,680	12.3	.8	D72897
Wilkinson										
Monitor Eagle No. 1	do.	T	5-inch lump		-	2,910+	-	5.7	.6	B10238
Do.	do.	T	5- by 3-inch		2,660	2,770	2,890	5.6	.8	B10239
Do.	do.	T	3- by 2-inch		2,820	2,910+	-	5.4	.6	B10240
Do.	do.	T	2- by 1-1/4-inch		2,780	2,860	2,910+	6.9	.6	B10241
Do.	do.	T	2-inch by 0		2,700	2,800	2,910+	8.4	.7	B10242
Do.	do.	T	1-1/4- by 3/4-inch		2,810	2,910	-	6.7	.8	B10243
Yolyn										
Argyle No. 1	Chilton	T	5-inch lump		2,280	2,400	2,650	2.8	.5	B10103
Do.	do.	T	5- by 2-inch		2,510	2,590	2,710	3.6	.6	B10104
Do.	do.	T	2- by 1-1/4-inch		2,580	2,700	2,780	5.7	.6	B10105
Do.	do.	T	1-1/4-inch by 0		2,800	2,890	2,910+	10.3	.6	B10106
Paragon	Cedar Grove	T	Run-of-mine		2,490	2,620	2,760	8.8	1.4	E46187
Do.	do.	T	2-inch lump		2,710	2,810	2,910+	5.6	1.1	E49561
Do.	do.	T	2-inch by 0		2,400	2,530	2,680	8.0	1.7	E49562
McDowell County										
Algoma										
Algoma	Pocahontas No. 3	T	Run-of-mine		2,160	2,360	2,670	7.1	.6	E39976
Amonate										
Amonate	Pocahontas No. 4	T	9- by 3-1/2-inch (W)		2,360	2,440	2,470	4.8	.6	E42445
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,150	2,210	2,240	8.1	.7	E42446
Do.	do.	T	1-3/4- by 1-inch (W)		2,160	2,220	2,250	7.4	.6	E42447
Do.	do.	T	1- by 3/8-inch (W)		2,100	2,190	2,330	6.2	.6	E42448
Do.	do.	T	3/8-inch by 0 (W)		2,390	2,440	2,500	6.2	.6	E42449
Pocahontas No. 31	do.	M		5	2,270	2,360	2,470	5.6	.5	A85078 to A85082
Anawalt										
Central Pocahontas No. 2	Pocahontas No. 3	T	Run-of-mine		2,560	2,680	2,740	7.7	.5	A11869
Do.	do.	T	1-1/4-inch by 0		2,550	2,640	2,820	7.3	.5	B14830
Southern Pocahontas No. 12	do.	T	Run-of-mine		2,280	2,470	2,750	5.8	.6	E71544
Angle										
Angle	do.	T	5-1/2-inch lump		2,130	2,430	2,670	3.5	.5	B74234
Do.	do.	T	5-1/2- by 3-inch		2,130	2,430	2,670	4.5	.5	B74235

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Do.	do.	T	3- by 1-1/4-inch (W)		2,410	2,620	2,780	9.2	.5	B74236
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,280	2,560	2,730	7.4	.5	B74237
Do.	do.	T	3/4-inch by 0 (W)		2,240	2,500	2,690	5.5	.5	B74238
Asco										
Asco	Sewell	T	7-inch lump		2,570	2,700	2,880	3.5	.6	B67411
Do.	do.	T	7- by 3-inch		2,530	2,680	2,780	4.2	.6	B67412
Do.	do.	T	3- by 1-1/4-inch		2,560	2,690	2,810	5.3	.7	B67413
Do.	do.	T	1-1/4-inch by 0		2,500	2,690	2,830	4.8	.6	B67414
Asco No. 1	do.	T	Run-of-mine		2,490	2,620	2,750	5.1	.7	C42986
Do.	do.	T	6- by 3-inch		2,500	2,600	2,750	5.8	.7	C42987
Do.	do.	T	1-1/2-inch by 0		2,650	2,730	2,860	6.5	.7	C42988
Asco No. 2	do.	T	1-1/2-inch lump		2,670	2,720	2,790	6.0	.8	C10195
Do.	do.	T	1-1/2-inch by 0		2,650	2,700	2,790	7.3	.6	C10196
Asco No. 4	do.	T	Run-of-mine		2,640	2,730	2,890	7.5	.6	C10498
Atlantic Smokeless	do.	T	do.		2,400	2,620	2,790	6.4	.6	A10885
Ashland										
Ashland	Pocahontas No. 3	T	do.		2,490	2,530	2,630	6.1	.5	A8282
Ashland No. 3	do.	T	1-1/4-inch by 0		2,620	2,740	-	7.7	.5	A71192
Ashland No. 6	Pocahontas No. 6	T	Run-of-mine		2,210	2,490	2,600	5.4	.8	A71193
Cherokee	Pocahontas No. 3	T	do.		2,510	2,570	2,710	5.9	.6	A8503
Bartley										
Pond Creek Pocahontas No. 1	Pocahontas No. 4	T	do.		2,330	2,380	2,570	7.8	.6	A40038
Do.	do.	T	7-1/2- by 3-inch (W)		2,220	2,310	2,510	6.2	.4	E29192
Do.	do.	T	3- by 1-1/4-inch (W)		2,400	2,450	2,570	5.6	.7	E29193
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,400	2,450	2,610	6.0	.5	E29194
Do.	do.	T	3/4- by 3/8-inch (W)		2,440	2,540	2,700	6.1	.5	E29195
Do.	do.	T	3/8- by 1/8-inch (W)		2,420	2,520	2,620	7.2	.5	E29196
Do.	do.	T	1/8-inch by 0		2,420	2,500	2,550	6.4	.5	E29197
Pond Creek Pocahontas No. 3	Beckley	T	Run-of-mine		2,430	2,610	2,790	9.0	.6	A81016
Do.	do.	T	10-inch lump		2,170	2,320	2,500	7.3	.8	E29055
Do.	do.	T	10- by 3-inch		2,440	2,520	2,660	7.8	.7	E29056
Do.	do.	T	3- by 1-1/4-inch (W)		2,450	2,580	2,780	8.6	.7	E29057
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,550	2,650	2,820	9.4	.6	E29058
Do.	do.	T	3/4- by 1/4-inch (W)		2,580	2,670	2,810	10.0	.6	E29059
Do.	do.	T	1/4-inch by 0		2,440	2,550	2,660	9.5	.7	E29060
Pond Creek Pocahontas No. 4	do.	T	Run-of-mine		2,440	2,550	2,870	8.1	.5	A80971
Do.	do.	T	7-1/2-inch lump		2,530	2,660	2,760	10.2	.5	B11703
Do.	do.	T	7-1/2- by 3-inch (W)		2,450	2,520	2,720	8.3	.5	B11704
Do.	do.	T	3- by 1-1/4-inch (W)		2,540	2,710	2,750	9.9	.5	B11705
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,540	2,710	2,810	10.9	.5	B11706
Do.	do.	T	5/8- by 1/4-inch (W)		2,630	2,740	2,840	10.2	.5	B11707
Do.	do.	T	1/4-inch by 0		2,380	2,520	2,720	9.6	.6	B11708
Berwind										
Berwind No. 1	Pocahontas No. 3	M		3	2,030	2,230	2,370	4.3	.6	A59375 to A59377
Berwind No. 3	do.	T	Run-of-mine		2,560	2,680	2,790	7.3	.9	A13242
Berwind No. 5	do.	T	do.		2,240	2,260	2,360	5.9	.9	A13243
Big Sandy										
Hampton Road	Sewell	T	do.		2,630	2,760	2,850	8.9	.8	A10569
Bishop (Tazewell County)										
Bishop	Pocahontas No. 5	T	7-1/2-inch lump		1,990	2,110	2,340	2.0	.5	B73476
Do.	do.	T	7-1/2- by 3-inch		1,990	2,130	2,350	2.6	.5	B73477
Do.	do.	T	3- by 1-1/4-inch (W)		2,100	2,150	2,570	3.1	.5	B73478
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,070	2,230	2,520	4.2	.6	B73479
Do.	do.	T	3/4-inch by 0		2,140	2,370	2,550	7.1	.5	B73480
Pocahontas No. 34	do.	M		5	2,190	2,260	2,580	2.5	.5	A85066 to A85070
Bradshaw										
Bradshaw	Iaeger	T	7-inch lump		1,990	2,150	2,460	5.1	.7	C10262
Do.	do.	T	7- by 2-1/2-inch		2,010	2,210	2,520	4.5	.9	C10263
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,070	2,310	2,480	4.6	.8	C10264
Do.	do.	T	1-1/4-inch by 0 (W)		2,360	2,580	2,750	10.9	.8	C10265

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
McDowell County (Con.)										
Bradshaw										
Pond Creek Pocahontas No. 6	Iaeger	T	8-1/2-inch lump		2,060	2,370	2,610	2.3	.5	E29905
Do.	do.	T	8-1/2- by 3-1/2-inch (W)		2,130	2,330	2,560	2.1	.6	E29906
Do.	do.	T	3-1/2- by 1-1/2-inch (W)		2,570	2,710	2,830	5.0	.5	E29907
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,670	2,740	2,860	6.2	.6	E29908
Do.	do.	T	3/4-inch by 0 (W)		2,700	2,790	2,910	6.5	.6	E29909
Bramwell (Mercer County)										
Greenbrier	Pocahontas No. 3	T	Run-of-mine (W)		2,130	2,390	2,490	8.2	.7	A10236
Capels										
Berwind No. 11	do.	M		1	2,210	2,280	2,360	6.0	1.1	B14272
Capels	do.	M		3	2,290	2,380	2,480	5.1	1.0	A59379 to A59381
Capels No. 3	do.	M		5	2,260	2,300	2,440	5.6	1.1	96338 to 96342
Caretta										
Caretta No. 5	Beckley	M		3	2,640	2,720	2,800	8.6	.6	D47715 to D47717
Consolidation No. 254	do.	T	2-1/2-inch by 0		2,320	2,640	2,720	13.4	1.2	A42317
Consolidation No. 261	Pocahontas No. 4	T	Run-of-mine		2,180	2,240	2,300	7.0	.8	A12606
Do.	do.	T	3/4-inch by 0		2,300	2,370	2,520	7.4	.6	A42245
Do.	do.	M		6	2,290	2,340	2,570	6.5	.4	A80604 to A80609
Coalwood										
Consolidation No. 251	do.	T	Run-of-mine		2,130	2,200	2,280	8.7	.8	A25509
Do.	do.	T	3/4-inch by 0		2,150	2,280	2,380	6.1	.6	A42339
Do.	do.	M		1	2,330	2,390	2,570	4.3	.6	A87271
Consolidation No. 252	Sewell	T	Run-of-mine		2,340	2,510	2,690	5.8	.6	A12605
Consolidation No. 253	do.	T	do.		2,180	2,390	2,510	6.9	1.1	A12607
Olga No. 1	Pocahontas No. 4	M		1	2,060	2,160	2,470	8.4	1.1	B47004
Crumpler										
Indian Ridge	Pocahontas No. 3	T	8-inch lump		2,650	2,740	2,840	5.0	.5	C9498
Do.	do.	T	8- by 3-inch		2,490	2,620	2,820	5.8	.5	C9499
Do.	do.	T	3- by 1-1/4-inch (W)		2,800	2,850	2,910+	7.0	.5	C9500
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,800	2,880	2,910+	6.9	.5	C9501
Do.	do.	T	3/8- by 1/4-inch (W)		2,750	2,820	2,910+	5.9	.5	C9502
Do.	do.	T	1/4-inch by 0		2,680	2,780	2,910	6.3	.5	C9503
Zenith	do.	T	Run-of-mine		2,620	2,700	2,850	6.7	.5	A8281
Zenith No. 2	do.	M		1	2,680	2,750	2,870	6.1	.8	B47553
Davy										
Dalla No. 2	Welch	T	Run-of-mine		2,810	2,910+	-	10.1	.7	C8204
Superior No. 4	Sewell	T	do.		2,220	2,450	2,570	5.0	.6	A10979
Eckman										
Eureka	Pocahontas No. 3	T	do.		2,150	2,220	2,300	6.9	.6	A5636
Do.	do.	M		3	2,190	2,270	2,370	5.0	.7	A5637 to A5639
Lindsey & Borden	do.	T	Run-of-mine		2,230	2,290	2,540	8.0	.6	C12107
Pais	do.	T	do.		2,650	2,750	2,860	7.0	.6	C12108
Pulaski	do.	T	do.		2,180	2,390	2,530	6.3	.6	A11508
Do.	do.	T	8-inch lump		2,210	2,270	2,420	4.9	.6	B74121
Do.	do.	T	8- by 3-inch		2,250	2,310	2,490	5.6	.5	B74122
Do.	do.	T	3- by 1-1/4-inch (W)		2,180	2,260	2,560	6.1	.5	B74123
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,190	2,430	2,680	7.3	.6	B74124

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Do.	do.	T	3/4-inch by 0		2,170	2,300	2,570	5.3	.5	B74125
Elkhorn										
Crozer	do.	T	Run-of-mine		2,280	2,510	2,700	6.0	.7	A5349
Do.	do.	T	8-inch lump		2,180	2,230	2,490	4.3	.5	C8297
Do.	do.	T	8- by 3-inch		2,240	2,310	2,560	5.1	.5	C8298
Do.	do.	T	3- by 1-1/4-inch (W)		2,170	2,220	2,560	7.9	.6	C8299
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,110	2,190	2,520	8.2	.7	C8300
Do.	do.	T	5/8-inch by 0		2,180	2,230	2,580	6.3	.6	C8301
Crozer No. 4	do.	M		5	2,110	2,370	2,540	4.0	.6	A5351 to A5355
Houston	do.	T	Run-of-mine		2,090	2,180	2,260	6.4	.6	96072
Do.	do.	M		4	2,120	2,220	2,310	4.2	.6	96073 to 96076
Upland	do.	T	Run-of-mine		2,150	2,450	2,640	5.6	.7	A5438
Upland No. 1	do.	T	5-inch lump		2,210	2,290	2,500	5.0	.5	C8237
Do.	do.	T	5- by 3-inch		2,210	2,300	2,500	5.8	.7	C8238
Do.	do.	T	3- by 1-1/4-inch (W)		2,160	2,260	2,510	6.6	.6	C8239
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,170	2,290	2,590	7.6	.7	C8240
Do.	do.	T	5/8-inch by 0		2,180	2,330	2,660	7.9	.7	C8241
Do.	do.	M		1	1,960	2,280	2,520	4.2	.6	A5439
Upland No. 2	Pocahontas No. 6	T	Run-of-mine		2,590	2,730	2,860	7.6	.7	C8426
Upland No. 3	Pocahontas No. 3	M		1	2,150	2,450	2,590	4.2	.7	A5441
Upland No. 4	do.	M		2	2,180	2,400	2,600	3.5	.8	A5442 and A5443
Gilliam										
Gilliam	do.	M		5	2,140	2,360	2,480	4.3	.5	95951 to 95955
Do.	do.	T	1-1/4-inch by 0		2,210	2,450	2,690	6.3	.4	B14966
Havaco										
Havaco	do.	M		5	2,180	2,250	2,420	5.9	.9	96332 to 96336
Do.	do.	T	Run-of-mine		2,240	2,300	2,370	6.7	.8	99078
Hemphill										
Exeter	do.	M		3	2,260	2,390	2,510	7.4	1.2	A30779 to A30781
Warwick	Welch	T	5-inch lump		2,520	2,610	2,790	6.7	.5	B43669
Do.	do.	T	5- by 2-1/2-inch		2,430	2,650	2,850	8.2	.6	B43670
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,570	2,760	2,890	8.7	.5	B43671
Do.	do.	T	1-1/4- by 1/2-inch (W)		2,570	2,760	2,890	8.6	.6	B43672
Do.	do.	T	1/2-inch by 0		2,470	2,710	2,850	7.1	.6	B43673
Iaeger										
Arrow No. 2	Red Ash	T	3-inch lump		2,140	2,430	2,570	2.9	.9	C10450
Do.	do.	T	3- by 1-1/2-inch		2,140	2,350	2,560	3.0	.9	C10451
Do.	do.	T	1-1/2-inch by 0		2,280	2,550	2,710	4.5	.7	C10452
Donald	do.	T	4-inch lump		2,100	2,210	2,560	2.4	.6	E13192
Do.	do.	T	4- by 1-1/2-inch		2,110	2,250	2,550	2.2	.5	E13193
Do.	do.	T	1-1/2- by 3/4-inch		2,100	2,320	2,540	7.3	1.2	E13194
Do.	do.	T	3/4-inch by 0		2,190	2,450	2,610	6.5	.9	E13195
Indian Pocahontas No. 2	do.	T	Run-of-mine		2,070	2,200	2,460	3.3	1.1	C11592
Indian Pocahontas No. 3	Welch	T	do.		2,310	2,460	2,730	4.6	.7	C12105
Red Bird	Red Ash	T	do.		2,230	2,440	2,590	3.0	.6	D26045
Spice Creek	do.	T	do.		2,190	2,450	2,590	5.0	1.1	E37522
Vera-Pocahontas No. 2	Sewell	T	do.		2,280	2,440	2,670	5.9	.7	A81071
Jenkinjones										
Jenkinjones	Pocahontas No. 3	T	8-inch lump		2,230	2,310	2,640	4.5	.5	B73896
Do.	do.	T	8- by 3-inch		2,250	2,330	2,660	5.0	.5	B73897
Do.	do.	T	3- by 1-1/4-inch (W)		2,150	2,280	2,680	6.9	.5	B73898
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,160	2,280	2,680	7.4	.5	B73899
Do.	do.	T	3/4- by 5/16-inch (W)		2,200	2,260	2,650	6.7	.5	B73900
Do.	do.	T	3/4-inch by 0		2,220	2,290	2,670	6.9	.6	B73901
Pocahontas No. 5	do.	M		5	2,200	2,260	2,460	5.6	.7	A85072 to A85076
Pocahontas No. 6	do.	T	Run-of-mine		2,180	2,240	2,420	6.9	.5	A10475
Pocahontas No. 7	do.	T	do.		2,170	2,220	2,250	6.0	.5	A10424
Do.	do.	T	7-1/2-inch lump		2,160	2,220	2,260	3.7	.5	D79465
Do.	do.	T	7-1/2- by 3-1/2-inch		2,130	2,180	2,290	5.4	.4	D79466
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,220	2,320	2,470	5.8	.5	D79467

1 M, mine sample; T, tipple sample 2 W, washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
McDowell County (Con.)										
Jenkinjones										
Pocahontas No. 7	Pocahontas No. 3	T	1-3/4- by 3/4-inch (W)		2,290	2,330	2,510	6.9	.5	D79468
Do.	do.	T	3/4- by 3/8-inch (W)		2,240	2,330	2,560	7.3	.5	D79469
Do.	do.	T	3/4-inch by 0		2,290	2,340	2,570	7.7	.5	D79470
Pocahontas No. 8	do.	T	Run-of-mine		2,450	2,570	2,650	6.7	.6	A10423
Do.	Pocahontas No. 4	T	7-1/2-inch lump		2,230	2,340	2,460	4.3	.6	D79590
Do.	do.	T	7-1/2- by 3-inch		2,030	2,260	2,440	3.7	.7	D79591
Do.	do.	T	3- by 1-3/4-inch (W)		2,380	2,530	2,680	8.5	.6	D79592
Do.	do.	T	1-3/4- by 3/4-inch (W)		2,450	2,570	2,700	7.9	.6	D79593
Do.	do.	T	3/4- by 3/8-inch (W)		2,440	2,590	2,740	7.5	.6	D79594
Do.	do.	T	3/4-inch by 0		2,380	2,450	2,590	8.4	.7	D79595
Juverna										
Marine No. 1	Welch	T	Run-of-mine		2,760	2,850	2,900	9.8	.7	A10689
Keystone										
Keystone	Pocahontas No. 3	T	8- by 3-inch		2,220	2,270	2,510	6.4	.6	C11397
Do.	do.	T	3- by 1-1/4-inch (W)		2,220	2,260	2,480	8.5	.6	C11398
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,210	2,260	2,510	8.3	.6	C11399
Do.	do.	T	3/4- by 1/4-inch (W)		2,310	2,410	2,650	7.5	.6	C11400
Do.	do.	T	1/4-inch by 0		2,260	2,300	2,480	6.7	.6	C11401
Kimball										
Carswell	do.	T	8- by 3-inch		2,320	2,370	2,570	6.3	.6	C10816
Do.	do.	T	3- by 1-1/4-inch (W)		2,320	2,360	2,560	8.1	.5	C10817
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,290	2,320	2,560	8.0	.5	C10818
Do.	do.	T	3/4- by 1/4-inch (W)		2,310	2,330	2,560	6.8	.6	C10819
Do.	do.	T	1/4- by 1/8-inch (W)		2,310	2,410	2,670	5.8	.7	C10820
Do.	do.	T	1/4-inch by 0		2,330	2,360	2,540	5.6	.6	C10821
Carswell No. 1	do.	M		5	2,150	2,260	2,350	5.1	.6	96277 to 96281
King	do.	T	Run-of-mine		2,230	2,280	2,330	7.5	.5	A10918
Tidewater No. 1	do.	T	do.		2,260	2,350	2,560	6.9	.7	A24650
Kyle										
Spud	do.	T	do.		2,730	2,810	2,910+	9.2	.5	C11549
Landgraff										
Empire	do.	T	do.		2,200	2,260	2,340	7.0	.6	A10068
Lex										
Cardiff	Red Ash (Douglass)	T	do.		2,180	2,410	2,450	4.4	.9	A12398
McDowell										
Arlington	Pocahontas No. 3	T	do.		2,240	2,510	2,630	6.9	.5	96071
Do.	do.	T	1-1/4-inch by 0		2,300	2,490	2,700	6.0	.5	B14967
Greenbrier	do.	T	Run-of-mine		2,430	2,560	2,670	5.5	.6	A55801
McDowell	do.	T	do.		2,250	2,540	2,730	7.2	.5	A40109
Maitland										
Maitland	Pocahontas No. 4	T	3/4-inch lump		2,430	2,480	2,730	7.4	.6	C11402
Do.	do.	T	3/4- by 3/8-inch (W)		2,570	2,690	2,790	8.7	.6	C11403
Do.	do.	T	3/8-inch by 0		2,470	2,570	2,730	7.4	.7	C11404
Mayberry										
Elkhorn	Pocahontas No. 3	T	Run-of-mine		2,210	2,370	2,590	4.5	.6	A11937
Do.	do.	T	1-1/2- by 3/4-inch		2,630	2,780	2,870	5.0	.5	A71191

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Do.	do.	T	3/4-inch by 0		2,500	2,760	2,850	7.6	.6	A71190
Mohegan										
Mohegan	Sewell	T	4- by 1-1/4-inch		2,340	2,500	2,760	3.5	.7	E5405
Do.	do.	T	1- by 1/4-inch (W)		2,340	2,510	2,790	4.3	.6	E5406
Do.	do.	T	1-1/4-inch by 0 (W)		2,230	2,550	2,820	6.8	.6	E5407
Monarch	Pocahontas No. 6	T	2-1/2- by 1-inch		2,800	2,850	2,950	7.6	.7	A62070
Do.	do.	T	3/4-inch by 0		2,820	2,870	2,980	11.2	.7	A62071
Pando No. 7	Sewell	T	3- by 1-1/4-inch (W)		2,340	2,460	2,680	3.9	.6	D27120
Do.	do.	T	1-1/4-inch by 0		2,360	2,570	2,750	10.5	.7	D27121
Newhall										
New River Pocahontas No. 6	Pocahontas No. 3	T	Run-of-mine		2,620	2,740	2,810	8.9	.7	A13241
New River Pocahontas No. 7	do.	T	do.		2,310	2,460	2,630	7.3	.7	A13239
New River Pocahontas No. 8	do.	T	do.		2,620	2,700	2,800	7.3	.6	A13240
Northfork										
Edmore No. 2	do.	T	do.		2,620	2,710	2,780	6.6	.6	C11548
Roanoke	do.	T	do.		2,330	2,470	2,600	8.3	.5	A24652
Rolfe	do.	T	do.		2,200	2,450	2,680	7.3	.6	A8502
Pageton										
Page	do.	M		3	2,060	2,160	2,330	4.7	.6	A59371 to A59373
Do.	do.	T	1-1/4-inch by 0		2,170	2,270	2,450	6.9	.7	A71280
Panther										
Douglas	Red Ash	T	3-inch lump		2,260	2,470	2,680	3.8	.9	B74365
Do.	do.	T	3- by 1-1/2-inch		2,150	2,420	2,580	5.2	1.2	B74366
Do.	do.	T	1-1/2-inch by 0		2,230	2,450	2,620	6.0	1.2	B74367
Powhatan										
Powhatan	Pocahontas No. 3	M		4	2,180	2,400	2,470	5.4	.6	A5523 to A5526
Do.	do.	T	6-inch lump		2,260	2,300	2,470	4.8	.5	B14825
Do.	do.	T	6- by 2-1/2-inch		2,200	2,260	2,450	6.7	.5	B14826
Do.	do.	T	2-1/2- by 1-inch (W)		2,130	2,280	2,540	8.1	.6	B14827
Do.	do.	T	1- by 1/2-inch (W)		2,100	2,280	2,540	8.2	.7	B14828
Do.	do.	T	1/2-inch by 0		2,060	2,290	2,540	7.1	.6	B14829
Premier										
Premier No. 1	Welch	T	Run-of-mine		2,740	2,760	2,820	8.9	.6	A12400
Premier No. 2	Sewell	T	do.		2,190	2,390	2,530	5.4	.7	A12399
Premier No. 3	Welch	T	do.		2,680	2,740	2,780	8.1	.6	A12401
Premier No. 4	Pocahontas No. 3	T	do.		2,620	2,710	2,840	7.3	.6	B14866
Do.	Welch	T	7-inch lump		2,720	2,840	2,910+	7.3	.6	C9923
Do.	do.	T	7- by 3-inch		2,810	2,890	2,910+	8.5	.6	C9924
Do.	do.	T	3- by 1-1/4-inch (W)		2,800	2,870	2,910+	10.0	.6	C9925
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,770	2,810	2,880	9.5	.8	C9926
Do.	do.	T	3/4-inch by 0		2,800	2,890	2,910+	8.0	.6	C9927
Premier No. 7	Sewell	T	Run-of-mine		2,280	2,450	2,690	6.5	.5	C9922
Roderfield										
Asco No. 3	do.	T	do.		2,500	2,610	2,750	6.8	.8	C10815
Coney Island No. 2	do.	T	do.		2,420	2,570	2,710	6.1	.9	C10814
Kesee	do.	T	do.		2,590	2,710	2,840	10.6	.9	C10499
P. & G.	do.	T	do.		2,540	2,670	2,790	6.7	.7	C11405
Superior										
Lake Superior No. 1	Pocahontas No. 3	T	5/8-inch by 0		2,200	2,320	2,440	7.3	.7	B14885
Lake Superior No. 2	Pocahontas No. 4	T	2-inch by 0		2,220	2,320	2,370	8.1	.7	B14886
Superior No. 3	Pocahontas No. 3	T	6-inch lump		2,330	2,370	2,550	6.7	.6	C8599
Do.	do.	T	6- by 3-inch		2,290	2,330	2,570	6.9	.6	C8600
Do.	do.	T	3- by 1-1/4-inch		2,310	2,340	2,600	7.0	.6	C8601
Do.	do.	T	1-1/4-inch by 0		2,310	2,350	2,590	6.7	.7	C8602
Superior No. 4	Pocahontas No. 4	T	7-inch lump		2,180	2,220	2,430	6.0	.6	C8816
Do.	do.	T	7- by 3-inch		2,350	2,400	2,600	9.7	.6	C8817
Do.	do.	T	3-inch by 0		2,370	2,470	2,640	9.6	.7	C8818
Switchback										
Delta	Pocahontas No. 3	M		4	2,120	2,330	2,440	3.6	.6	96183 to 96186
Do.	do.	T	Run-of-mine		2,190	2,370	2,510	8.3	.6	96189
Do.	do.	T	3/4-inch lump		2,160	2,270	2,810	6.8	.6	B73672
Do.	do.	T	3/4-inch by 0		2,150	2,230	2,640	5.0	.6	B73673

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
McDowell County (Con.)										
Switchback										
Lick Branch	Pocahontas No. 3	T	Run-of-mine		2,140	2,200	2,340	5.7	.6	A11284
Twin Branch										
Asco No. 5	Sewell	T	1-1/2-inch lump		2,550	2,650	2,750	5.8	.8	C43136
Do.	do.	T	1-1/2-inch by 0		2,680	2,750	2,850	6.8	.8	C43137
Vivian										
Bottom Creek	Pocahontas No. 3	T	Run-of-mine		2,190	2,270	2,380	6.2	.6	A8596
Do.	do.	M		1	2,250	2,310	2,470	5.3	.6	B14276
Do.	do.	T	8-inch lump		2,060	2,150	2,320	5.3	.7	B74126
Do.	do.	T	8- by 3-inch		2,070	2,140	2,320	5.6	.5	B74127
Do.	do.	T	3- by 1-1/4-inch (W)		2,300	2,390	2,590	7.8	.6	B74128
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,250	2,360	2,570	8.0	.6	B74129
Do.	do.	T	3/4-inch by 0		2,190	2,320	2,480	6.2	.6	B74130
Empire	do.	T	1-1/2-inch by 0		2,200	2,390	2,620	6.9	.6	B14911
Peerless	do.	T	Run-of-mine		2,290	2,340	2,560	6.4	.6	A24651
Do.	do.	T	1/2-inch by 0		2,130	2,290	2,400	4.6	.7	B14910
Peerless No. 1	do.	T	8-inch lump		2,280	2,320	2,520	5.8	.6	C8603
Do.	do.	T	8- by 3-inch (W)		2,260	2,300	2,530	5.7	.5	C8604
Do.	do.	T	3- by 1-1/4-inch (W)		2,350	2,380	2,590	8.0	.5	C8605
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,250	2,300	2,490	9.0	.9	C8606
Do.	do.	T	3/4- by 3/8-inch		2,290	2,330	2,590	6.9	.6	C8607
Do.	do.	T	3/8-inch by 0		2,260	2,310	2,510	5.3	.7	C8608
Peerless No. 2	Pocahontas No. 4	T	Run-of-mine		2,790	2,860	2,910+	13.1	.8	C8427
War										
Pine Ridge	Beckley	T	1-inch lump		2,650	2,790	2,920+	8.7	.6	B67336
Do.	do.	T	1- by 1/2-inch		2,650	2,790	2,920+	9.5	.8	B67337
Do.	do.	T	1/2-inch by 0		2,560	2,700	2,880	8.3	.8	B67338
Warriormine										
Warrior	do.	M		6	2,340	2,440	2,490	11.0	.7	A4963 to A4968
Welch										
Edmore No. 1	Fire Creek	T	Run-of-mine		2,480	2,600	2,730	7.7	1.2	C12104
Junior Pocahontas	Pocahontas No. 3	T	do.		2,510	2,680	2,740	8.5	.7	99077
Do.	do.	M		5	2,400	2,610	2,700	5.5	.7	A1208 to A1212
Litz	Welch	T	Run-of-mine		2,760	2,840	2,910+	7.3	.5	C12106
Worth										
Indian Ridge	Pocahontas No. 3	T	do.		2,200	2,600	2,760	5.8	.6	A42516
Rolfe	do.	T	do.		2,240	2,300	2,770	5.5	.5	B73894
Do.	do.	T	1/4-inch by 0		2,160	2,280	2,630	6.2	.5	B73895
Yukon										
Yukon	Beckley	T	6- by 2-1/2-inch		2,280	2,330	2,570	9.9	.6	A51722
Do.	do.	T	2-1/2- by 3/4-inch		2,280	2,500	2,670	11.8	.6	A51723
Do.	do.	T	3/4-inch by 0		2,330	2,450	2,670	9.9	.7	A51327
Marion County										
Boothsville										
Morgan Brothers	Pittsburgh	T	Run-of-mine		2,130	2,470	2,680	6.4	1.5	D58568

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Carolina										
Consolidation No. 86	do.	T	4-inch lump		2,190	2,340	2,570	6.6	.7	B21935
Do.	do.	T	4- by 2-1/2-inch		2,330	2,370	2,520	6.5	.6	B21936
Do.	do.	T	2-1/2- by 1-1/4-inch		2,290	2,330	2,520	7.9	.9	B21937
Do.	do.	T	1-1/4-inch by 0		2,270	2,330	2,490	7.1	.9	B21938
Everson										
Junior No. 1	do.	T	Run-of-mine		2,440	2,530	2,680	6.4	1.1	D91277
Do.	do.	T	do.		2,080	2,210	2,520	7.0	1.5	F24584
Consolidation No. 26	do.	T	2-inch lump		2,090	2,290	2,470	5.7	1.0	B21875
Fairmont										
Consolidation No. 38	do.	T	2-1/2-inch lump		2,040	2,140	2,420	7.0	2.0	B21877
Do.	do.	T	2-1/2-inch by 0		1,980	2,100	2,310	8.9	2.7	B21878
Farmington										
Jamison No. 8	do.	M		2	2,220	2,280	2,450	6.0	.9	A19088 and A19089
Do.	do.	T	2-inch lump		2,280	2,330	2,390	6.9	1.2	B21975
Do.	do.	T	2- by 1-1/4-inch		2,180	2,250	2,390	8.5	1.4	B21976
Do.	do.	T	1-1/4- by 1/2-inch		2,180	2,200	2,370	8.2	1.4	B21977
Do.	do.	T	1/2-inch by 0		2,060	2,180	2,380	7.8	1.8	B21978
Jamison No. 9	do.	T	8- by 5-inch (W)		2,150	2,210	2,300	6.9	1.8	E50010
Do.	do.	T	5- by 2-inch (W)		2,130	2,180	2,350	7.7	1.8	E50011
Do.	do.	T	2- by 1-1/4-inch (W)		2,120	2,180	2,360	7.4	1.9	E50012
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,140	2,190	2,360	7.9	1.9	E50013
Do.	do.	T	3/4-inch by 0 (W)		2,200	2,240	2,300	6.7	1.8	E50014
Four States										
O'Donnell	do.	T	5-inch lump		2,150	2,180	2,310	7.3	1.7	D47320
Do.	do.	T	5- by 1-5/8-inch (W)		2,150	2,210	2,310	7.0	1.5	D47321
Do.	do.	T	1-5/8- by 5/8-inch (W)		2,150	2,180	2,310	6.8	1.9	D47322
Do.	do.	T	5/8-inch by 0		2,030	2,100	2,260	9.1	2.3	D47323
Grant Town										
Federal No. 1	do.	T	5- by 1-1/8-inch (W)		2,170	2,230	2,410	8.2	2.5	F17910
Do.	do.	T	1-1/8- by 5/8-inch		2,170	2,230	2,410	8.0	2.7	F17911
Do.	do.	T	5/8-inch by 0		2,160	2,230	2,350	8.5	2.8	F17912
Jordan										
Byrne	Sewickley	T	5- by 2-inch		2,090	2,190	2,480	11.8	3.7	E27473
Do.	do.	T	2- by 1-1/4-inch		2,070	2,120	2,360	11.7	4.4	E27474
Do.	do.	T	1-1/4- by 3/4-inch		2,020	2,130	2,350	11.5	4.3	E27475
Do.	do.	T	3/4-inch by 0		2,020	2,130	2,350	14.2	4.7	E27476
Consolidation No. 93	Pittsburgh	T	Run-of-mine		2,080	2,140	2,370	8.6	2.7	E7060
Do.	do.	T	do.		2,220	2,330	2,560	8.6	.9	E7061
Kingmont										
Kingmont	do.	T	6- by 2-inch		2,230	2,480	2,630	6.8	1.7	B66285
Do.	do.	T	2- by 1-1/8-inch		2,060	2,310	2,490	7.3	2.0	B66286
Do.	do.	T	1-1/8- by 5/8-inch		1,970	2,160	2,390	7.4	2.1	B66287
Do.	do.	T	5/8-inch by 0		1,980	2,130	2,460	8.8	2.8	B66288
Do.	do.	T	do.		1,980	2,140	2,460	7.3	1.9	B66289
Monongah										
Consolidation No. 63	do.	M		4	2,170	2,230	2,400	6.2	1.6	A32470 to A32473
Do.	do.	M		4	2,350	2,380	2,550	5.4	.8	A84680 to A84683
Do.	do.	T	5- by 1-1/4-inch (W)		2,340	2,400	2,520	6.5	.7	E6929
Do.	do.	T	do.		2,160	2,240	2,390	7.5	1.4	E6930
Do.	do.	T	5- by 3/4-inch (W)		2,260	2,310	2,380	6.6	1.1	F24849
Do.	do.	T	do.		2,120	2,260	2,570	6.1	1.4	F24850
Rachel										
Joanne	do.	T	6-inch lump		1,940	2,050	2,360	8.1	2.7	D47095
Do.	do.	T	6- by 2-inch		2,030	2,100	2,360	7.5	2.6	D47096
Do.	do.	T	2- by 1-1/4-inch		2,030	2,050	2,340	8.9	2.7	D47097
Do.	do.	T	1-1/4- by 1/2-inch		2,030	2,050	2,340	8.9	2.8	D47098
Do.	do.	T	1/2-inch by 0		1,940	2,030	2,260	7.8	2.8	D47099
Rachel	do.	T	5-inch lump		2,290	2,320	2,430	6.1	1.0	B21956
Do.	do.	T	5- by 3-inch		2,260	2,290	2,430	6.9	1.2	B21957
Do.	do.	T	3- by 3/4-inch		2,330	2,350	2,500	6.6	.8	B21958

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Marion County (Con.)										
Rachel										
Rachel	Pittsburgh	T	3/4-inch by 0		2,230	2,270	2,510	8.4	1.4	B21959
Rivesville										
Consolidation No. 97	do.	T	Run-of-mine		2,080	2,180	2,370	9.2	2.0	B21963
Morgan	do.	T	2- by 1-1/8-inch		2,070	2,230	2,490	8.5	2.0	B66217
Do.	do.	T	1-1/8- by 5/8-inch		2,030	2,180	2,400	9.2	2.3	B66218
Do.	do.	T	5/8-inch by 0		2,000	2,100	2,360	9.9	2.8	B66219
Marshall County										
Benwood										
Benwood	do.	M		3	2,010	2,090	2,200	7.8	4.0	A1620 to A1622
Hitchman	do.	T	Run-of-mine		2,000	2,060	2,390	8.5	4.5	B33071
McKeefrey										
McKeefrey	do.	T	4-inch lump		2,020	2,080	2,500	8.9	5.0	B32792
Do.	do.	T	4- by 1-3/4-inch		2,080	2,200	2,380	10.4	4.8	B32793
Do.	do.	T	1-3/4-inch by 0		2,000	2,040	2,370	10.2	4.3	B32794
Moundsville										
Alexander	do.	T	Run-of-mine		1,920	2,010	2,260	9.1	4.5	B33102
Do.	do.	T	2-inch lump		1,900	2,070	2,400	11.1	4.5	D84756
Do.	do.	T	2-inch by 0		1,900	2,010	2,330	10.9	4.7	D84757
Mound	do.	M		3	2,000	2,120	2,240	8.3	3.9	A27483 to A27485
Mason County										
West Columbia										
Ambassador	do.	T	5- by 3-inch (W)		2,150	2,470	2,610	7.2	2.7	D50194
Do.	do.	T	3- by 1-inch (W)		2,130	2,320	2,600	7.5	3.0	D50195
Do.	do.	T	1- by 3/8-inch (W)		2,480	2,520	2,580	8.1	2.8	D50196
Do.	do.	T	3/8-inch by 0		2,180	2,260	2,490	18.0	3.9	D50197
Orchard No. 2	do.	T	8-inch lump		2,290	2,380	2,480	7.4	2.4	D50198
Do.	do.	T	8- by 2-inch		2,460	2,540	2,670	7.4	2.1	D50199
Do.	do.	T	2-inch by 0		2,310	2,380	2,430	11.0	2.5	D50200
Mercer County										
Algonquin										
Algonquin	Pocahontas No. 3	T	Run-of-mine		2,450	2,600	2,790	7.3	.6	A39746
Arista										
Arista	do.	T	8-inch lump		2,600	2,680	2,780	4.6	.7	E39244
Do.	do.	T	8- by 3-1/2-inch		2,460	2,630	2,770	4.2	.6	E39245
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,720	2,800	2,900	7.9	.5	E39246
Do.	do.	T	1-3/4- by 3/4-inch (W)		2,740	2,810	2,890	8.3	.4	E39247
Do.	do.	T	3/4- by 3/8-inch		2,740	2,820	2,890	9.1	.5	E39248
Do.	do.	T	3/8-inch by 0		2,460	2,630	2,780	6.6	.5	E39249
Kitchekan	Pocahontas No. 6	T	Run-of-mine		2,580	2,750	2,870	6.6	.8	E45445
Coopers										
Mill Creek	Pocahontas No. 4	T	do.		2,200	2,450	2,640	5.4	.6	A11938

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Crystal										
Crystal	Pocahontas No. 3	M		3	2,190	2,410	2,510	4.1	.9	96840, 96841, and 96843
Do.	do.	T	Run-of-mine		2,340	2,510	2,630	8.6	.7	96845
Dott										
Modoc	do.	T	do.		2,620	2,720	2,810	6.9	.6	A39770
Do.	do.	T	3/4-inch by 0		2,770	2,850	2,950	5.8	.5	A71478
Wenonah	do.	T	do.		2,460	2,780	2,890	5.8	.6	A71474
Freeman										
Booth-Bowen	do.	T	Run-of-mine		2,320	2,480	2,590	7.0	.8	97322
Do.	do.	M		3	2,200	2,420	2,560	3.9	.6	A59387 to A59389
Buckeye No. 2	Pocahontas No. 6	T	Run-of-mine		2,600	2,730	2,890	5.0	.7	C7399
Caswell Creek	Pocahontas No. 3	T	do.		2,440	2,620	2,700	5.3	.8	A10334
Giatto										
Thomas No. 2	do.	T	do.		2,620	2,740	-	6.4	.6	97264
Do.	do.	M		3	2,470	2,720	-	4.7	.7	97265 to 97267
Goodwill										
Louisville	Pocahontas No. 6	T	6-inch lump		2,190	2,350	2,580	2.0	.4	E9619
Do.	do.	T	6- by 3-inch		2,190	2,340	2,570	2.0	.5	E9620
Do.	do.	T	3- by 1-1/2-inch (W)		2,380	2,530	2,670	3.4	.4	E9621
Do.	do.	T	1-1/2- by 5/8-inch (W)		2,490	2,630	2,820	4.6	.4	E9622
Do.	do.	T	5/8-inch by 0		2,450	2,630	2,820	4.7	.5	E9623
Hiawatha										
Hiawatha	Pocahontas No. 3	T	Run-of-mine		2,180	2,700	2,790	7.3	.9	A66106
Do.	do.	T	8-inch lump		2,630	2,780	2,890	3.6	.6	B43720
Do.	do.	T	8- by 3-inch		2,730	2,870	2,910+	5.4	.6	B43721
Do.	do.	T	3- by 1-1/4-inch (W)		2,750	2,890	2,910+	5.7	.6	B43722
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,750	2,850	2,910+	7.0	.6	B43723
Do.	do.	T	5/8- by 3/8-inch (W)		2,570	2,790	2,890	6.0	.6	B43724
Do.	do.	T	3/8-inch by 0		2,500	2,740	2,890	6.2	.6	B43725
Lamar										
Lamar	do.	T	Run-of-mine		2,400	2,460	2,690	6.3	.5	A81256
Do.	do.	M		1	2,830	2,910+	-	4.8	.5	B48281
Do.	do.	T	3-inch lump		2,730	2,820	2,910+	5.7	.6	C7862
Do.	do.	T	3- by 1-1/2-inch		2,750	2,820	2,910	7.2	.5	C7863
Do.	do.	T	1-1/2-inch by 0 (W)		2,720	2,800	2,910	7.7	.5	C7864
Do.	do.	T	1-1/2- by 5/8-inch (W)		2,780	2,850	2,910+	10.9	.5	C7865
Do.	do.	T	5/8-inch by 0		2,760	2,820	2,910+	6.4	.5	C7866
Lamar No. 1	do.	T	1-3/4-inch lump (W)		2,800	2,910+	-	7.4	.5	E9617
Do.	do.	T	1-3/4-inch by 0 (W)		2,800	2,900	2,910+	8.4	.4	E9618
McComas										
Crane Creek	do.	T	Run-of-mine		2,340	2,510	2,630	7.0	.6	A11790
Do.	do.	T	2-1/2- by 1-1/2-inch		2,640	2,790	2,830	6.1	.5	A71476
Do.	do.	T	1-1/2-inch by 0		2,710	2,810	2,890	6.2	.6	A71477
Pinnacle	do.	T	Run-of-mine		2,280	2,510	2,800	6.4	.7	97269
Do.	do.	M		6	2,200	2,410	2,540	3.4	.7	97270 to 97275
Sagamore	do.	M		3	2,310	2,540	2,650	4.0	.6	A59383 to A59385
Do.	do.	T	8- by 5-1/2-inch		2,270	2,570	2,760	3.8	.5	B73794
Do.	do.	T	5-1/2- by 3-inch		2,420	2,590	2,810	5.4	.5	B73795
Do.	do.	T	3- by 1-1/4-inch (W)		2,510	2,680	2,890	8.6	.5	B73796
Do.	do.	T	3/4- by 3/8-inch (W)		2,480	2,670	2,860	6.5	.5	B73797
Do.	do.	T	1-1/4-inch by 0 (W)		2,440	2,620	2,830	6.7	.6	B73798
Do.	Pocahontas No. 11	T	8- by 3-inch		2,360	2,520	2,650	3.3	.8	E5744
Do.	do.	T	3- by 1-1/4-inch (W)		2,540	2,660	2,790	4.6	.5	E5745
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,510	2,620	2,770	4.8	.6	E5746
Do.	do.	T	3/4- by 3/8-inch (W)		2,390	2,580	2,700	4.5	.6	E5747
Do.	do.	T	3/8-inch by 0		2,240	2,460	2,700	5.1	.5	E5748
Thomas	Pocahontas No. 3	T	1-1/4-inch lump		2,520	2,680	2,890	6.4	.6	C7397
Do.	do.	T	1-1/4-inch by 0		2,500	2,660	2,810	11.2	.6	C7398
Thomas No. 1	do.	T	Run-of-mine		2,560	2,680	2,790	5.8	.6	A13773

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Mercer County (Con.)										
Matoaka										
Brown Coal Company	Pocahontas No. 3	T	Run-of-mine		2,400	2,610	2,800	8.8	.6	E53508
Pawama	do.	T	10- by 1-1/4-inch		2,730	2,840	2,910+	11.1	.7	D30419
Do.	do.	T	1-1/4-inch by 0		2,420	2,590	2,650	4.8	.8	D30420
Piedmont	do.	T	8-inch lump		2,640	2,750	2,910	3.3	.5	D78702
Do.	do.	T	8- by 3-inch		2,640	2,740	2,860	3.5	.6	D78703
Do.	do.	T	3- by 1-1/4-inch (W)		2,840	2,910+	-	7.7	.5	D78704
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,780	2,890	2,910+	6.7	.6	D78705
Do.	do.	T	3/4- by 3/8-inch		2,840	2,910+	-	6.1	.6	D78706
Do.	do.	T	3/8-inch by 0		2,720	2,840	2,910+	6.7	.6	D78707
Simmons										
Buckeye No. 1	do.	T	Run-of-mine		2,170	2,460	2,640	6.5	.9	A24726
Springton										
Spring	do.	T	8-inch lump		2,640	2,790	2,910+	3.4	.6	B43817
Do.	do.	T	8- by 3-inch (W)		2,600	2,790	2,920	4.8	.6	B43818
Do.	do.	T	3- by 1-1/4-inch (W)		2,800	2,870	2,910+	6.7	.5	B43819
Do.	do.	T	1-1/4- by 1/2-inch (W)		2,670	2,800	2,910+	6.4	.7	B43820
Do.	do.	T	1/2-inch by 0		2,600	2,740	2,910+	5.5	.6	B43821
Weyanoke										
Weyanoke	do.	T	1-1/4-inch by 0		2,390	2,750	2,870	5.8	.6	A71544
Mineral County										
Barnum										
Kalbaugh	Bakerstown	T	1-inch lump		2,300	2,380	2,540	15.0	3.0	A32709
Do.	do.	T	1-inch by 0		2,300	2,370	2,570	16.1	2.6	A32708
Elk Garden										
Vanderbur	do.	T	Run-of-mine		2,170	2,420	2,510	19.5	2.9	A41496
Gleason										
Bernard	Upper Kittanning	T	do.		2,360	2,430	2,780	11.7	1.0	A89911
Hampshire										
Hampshire	Bakerstown	T	7-inch lump		2,620	2,730	2,890	10.1	2.1	D59665
Do.	do.	T	7- by 3-inch		2,620	2,780	2,890	10.2	1.9	D59666
Do.	do.	T	3- by 1-inch (W)		2,620	2,730	2,890	15.5	2.3	D59667
Do.	do.	T	1- by 1/2-inch (W)		2,620	2,780	2,890	17.3	2.3	D59668
Do.	do.	T	1/2-inch by 0		2,520	2,620	2,680	16.7	2.3	D59669
Oakmont										
Abrams Creek	Upper Freeport	T	Run-of-mine		1,940	2,200	2,350	11.9	2.9	A32710
Ajax	Bakerstown	T	do.		2,140	2,390	2,490	13.8	2.5	A41497
Oakmont	Freeport	T	do.		2,400	2,470	2,600	10.3	.9	A97698
Do.	do.	T	2-1/2- by 1-inch		2,600	2,660	2,790	14.2	.9	A97699
Do.	do.	T	3/4-inch by 0		2,310	2,360	2,460	11.0	1.4	A97700
Shaw										
Lantz	Bakerstown	T	7-inch lump		1,920	2,350	2,440	13.6	5.1	A30386
Do.	do.	T	7- by 1-1/4-inch		1,920	2,230	2,360	14.5	4.7	A30385
Do.	do.	T	1-1/4-inch by 0		1,940	2,260	2,310	16.5	4.1	A30460
Royal No. 2	Pittsburgh	T	Run-of-mine		2,910+	-	-	8.3	.7	E13731
Shores Knob	do.	M		3	2,650 (2)	2,910+(1) 2,740 (2)	- 2,910+(2)	9.5	.8	C27160, C27161, [illegible]

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Swayne	Bakerstown	T	7- by 1-1/2-inch	1,970	2,260	2,290	13.2	3.6	A30458
Do.	do.	T	1-1/2- by 1-inch	2,000	2,220	2,320	18.6	3.7	A30459
Do.	do.	T	1-inch by 0	2,050	2,190	2,360	17.3	3.6	A30457
Mingo County									
Chattaroy									
Buffalo	Winifrede	T	5-inch lump	2,780	2,910+	-	5.7	.8	B94590
Do.	do.	T	5- by 2-1/2-inch	2,910	2,910+	-	10.1	.8	B94591
Do.	do.	T	2-1/2-inch by 0	2,730	2,890	2,910+	14.2	.9	B94592
Cinderella									
Alma No. 12	Alma	T	Run-of-mine	2,680	2,780	2,800	7.6	.8	D51779
Cinderella	Coalburg	T	5-inch lump	2,910+	-	-	5.0	.6	D50445
Do.	do.	T	5- by 4-inch	2,910+	-	-	8.4	.7	D50446
Do.	do.	T	4- by 2-inch (W)	2,840	2,880	2,910+	5.4	.6	D50447
Do.	do.	T	2-inch by 0 (W)	2,790	2,860	2,910+	12.5	.6	D50448
Do.	Winifrede	T	5-inch lump	2,910	2,910+	-	5.1	.8	D50449
Do.	do.	T	5- by 4-inch	2,910+	-	-	6.9	.7	D50450
Do.	do.	T	4- by 2-inch (W)	2,910+	-	-	5.9	.6	D50451
Do.	do.	T	2-inch by 0 (W)	2,800	2,880	2,910+	9.3	.7	D50452
Delbarton									
New Century	Cedar Grove (Thacker)	T	5-inch lump	2,770	2,850	-	6.7	1.1	B8527
Do.	do.	T	5- by 2-inch	2,510	2,600	2,680	7.8	1.6	B8528
Do.	do.	T	2-inch by 0	2,200	2,480	2,690	9.0	2.0	B8529
William Ann	do.	T	Run-of-mine	2,530	2,610	2,740	10.7	2.0	B94736
Gilbert									
Kimberling	Powellton	T	3-inch lump (W)	2,880	2,910+	-	3.3	.5	E36734
Do.	do.	T	3- by 2-inch (W)	2,760	2,850	2,910+	3.5	.6	E36735
Do.	do.	T	2-inch by 0 (W)	2,620	2,760	2,860	4.2	.5	E36736
Glenalum									
Glen Alum	Glenalum	T	5-inch lump	-	2,910+	-	6.2.	.6	B9569
Do.	do.	T	5- by 1-inch	-	2,910+	-	7.0	.7	B9570
Do.	do.	T	1-inch by 0	2,820	2,900	2,910+	6.9	.7	B9571
Glen Alum No. 1	do.	T	7-inch lump	2,910+	-	-	6.2	.7	E82564
Do.	do.	T	7- by 3-1/2-inch	2,910+	-	-	7.0	.6	E82565
Do.	do.	T	3-1/2- by 2-inch	2,910+	-	-	6.9	.7	E82566
Do.	do.	T	2-inch by 0	2,890	2,910+	-	7.0	.7	E82567
Holden (Logan County)									
Island Creek No. 7	Cedar Grove	T	5-inch lump	2,680	2,810	2,910+	7.0	1.1	E30501
Do.	do.	T	5- by 2-inch (W)	2,400	2,520	2,730	6.0	1.3	E30502
Do.	do.	T	2- by 1-1/4-inch (W)	2,530	2,600	2,730	5.1	1.3	E30503
Do.	do.	T	1-1/4- by 1/4-inch (W)	2,520	2,580	2,760	5.9	1.3	E30504
Do.	do.	T	1/4-inch by 0	2,370	2,430	2,550	8.7	1.2	E30505
Isabaum									
Peter White	do.	T	6-inch lump	2,910+	-	-	6.0	.6	D50891
Do.	do.	T	6- by 2-1/2-inch	2,780	2,840	2,910	9.2	.6	D50892
Do.	do.	T	2-1/2- by 3/4-inch	2,910+	-	-	5.8	.5	D50893
Do.	do.	T	3/4-inch by 0	2,910+	-	-	7.8	.5	D50894
Justice									
Buchannon	do.	T	Run-of-mine	2,910+	-	-	9.8	.9	D26814
Kermit									
Burning Creek	Alma	T	1- by 1/4-inch (W)	2,100	2,460	2,550	5.6	1.3	E52792
Do.	do.	T	1/4-inch by 0 (W)	2,220	2,310	2,450	6.3	1.4	E52793
Chafin Branch No. 2	No. 2 Gas	T	Run-of-mine	2,310	2,540	2,590	12.1	2.1	D50539
Lando Mines									
Lando	Upper Cedar Grove	T	6-inch lump	2,720	2,790	2,910	7.0	1.0	E70775
Do.	do.	T	5- by 2-inch (W)	2,660	2,780	2,910	8.6	1.3	E70776
Do.	do.	T	1-1/4- by 3/8-inch (W)	2,500	2,600	2,730	8.3	1.8	E70777
Do.	do.	T	3/8-inch by 0	2,080	2,430	2,550	12.2	2.6	E70778
Lando No. 2	do.	T	5-inch lump	2,910+	-	-	7.5	.8	E12492
Do.	do.	T	3- by 1-1/4-inch (W)	2,550	2,690	2,810	7.7	1.4	E12493

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Mingo County (Con.)										
Lando Mines										
Lando No. 2	Upper Cedar Grove	T	1-1/4- by 3/4-inch (W)		2,590	2,650	2,780	7.3	1.4	E12494
Do.	do.	T	3/4-inch by 0		2,110	2,480	2,570	10.0	2.1	E12495
Lobata										
Alma No. 1	Alma	T	Run-of-mine		2,700	2,780	2,890	4.0	.6	D92458
Cedar Grove	Cedar Grove	T	5-inch lump		2,760	2,800	2,910+	10.1	1.4	D50540
Do.	do.	T	5- by 2-inch		2,730	2,840	2,910+	8.4	1.2	D50541
Do.	do.	T	2-inch by 0		2,620	2,720	2,790	8.7	1.2	D50542
Cedar Grove No. 1	do.	T	6- by 3-inch		2,860	2,910+	-	9.7	1.1	D92455
Do.	do.	T	3- by 2-inch		2,780	2,860	2,910+	7.6	1.1	D92456
Do.	do.	T	2-inch by 0		2,550	2,670	2,780	7.9	1.3	D92457
Gate No. 1	Winifrede	T	5-inch lump		2,810	2,860	2,910+	6.7	.6	B93354
Do.	do.	T	5- by 3-inch		2,910+	-	-	6.3	.6	B93355
Do.	do.	T	3- by 2-inch		2,910+	-	-	8.0	.6	B93356
Do.	do.	T	2-inch by 0		2,890	2,910+	-	9.6	.6	B93357
Gate No. 2	Alma	T	Run-of-mine		2,610	2,690	2,850	5.9	.7	B93111
Matewan										
Junior	Cedar Grove	T	5-inch lump		2,790	2,850	2,920	5.0	.8	B8186
Do.	do.	T	5- by 3-inch		2,740	2,810	2,910	5.7	1.0	B8187
Do.	do.	T	3- by 2-inch		2,630	2,670	2,790	6.4	1.1	B8188
Do.	do.	T	2-inch by 0		2,310	2,500	2,720	6.9	1.4	B8189
Do.	do.	T	do.		2,540	2,610	2,770	5.7	1.2	B8356
McKinzey No. 1	Alma	T	Run-of-mine		2,910+	-	-	4.9	.6	B93353
Nolan										
Nolan	Winifrede	T	5-inch lump		2,770	2,810	2,910+	3.1	.6	D95202
Do.	do.	T	5- by 2-1/2-inch		2,810	2,880	2,910+	5.5	.6	D95203
Do.	do.	T	2-inch by 0		2,710	2,810	2,910	14.0	.7	D95204
Puritan Mines										
Puritan	Upper Cedar Grove	T	5-inch lump		2,670	2,750	2,910+	6.9	1.2	E70605
Do.	do.	T	5- by 2-inch		2,760	2,840	2,910+	8.1	1.1	E70606
Do.	do.	T	2- by 1-1/4-inch		2,570	2,710	2,900	7.5	1.1	E70607
Do.	do.	T	1-1/4- by 1/4-inch		2,580	2,670	2,790	7.6	1.3	E70608
Do.	do.	T	1/4-inch by 0		2,540	2,690	2,800	9.1	1.3	E70609
Ragland										
Island Creek No. 24	Lower Cedar Grove	T	5-inch lump		2,680	2,740	2,850	5.1	.7	E31451
Do.	do.	T	5- by 3-inch (W)		2,770	2,860	2,910+	5.4	.5	E31452
Do.	do.	T	3- by 2-inch (W)		2,700	2,760	2,910+	5.0	.6	E31453
Do.	do.	T	2- by 1-1/4-inch (W)		2,660	2,850	2,910+	4.6	.5	E31454
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,670	2,760	2,870	5.4	.7	E31455
Do.	do.	T	1/4-inch by 0 (W)		2,340	2,490	2,740	5.8	.7	E31456
Island Creek No. 25	Lower Cedar Grove	T	3-inch lump (W)		2,610	2,710	2,880	4.0	.6	E31701
Do.	do.	T	3- by 2-inch (W)		2,640	2,730	2,880	3.8	.6	E31702
Do.	do.	T	2- by 1-1/4-inch (W)		2,550	2,680	2,840	4.5	.7	E31703
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,570	2,680	2,820	5.8	.9	E31704
Do.	do.	T	1/4-inch by 0 (W)		2,330	2,520	2,710	6.6	.8	E31705
Island Creek No. 26	Upper Cedar Grove	T	5-inch lump		2,610	2,760	2,910+	7.3	.9	E31103
Do.	do.	T	5- by 2-inch (W)		2,700	2,810	2,910+	7.8	1.1	E31104

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Do.	do.	T	2- by 1-1/4-inch (W)		-	2,800	2,910+	7.2	1.2	E31105
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,850	2,890	2,910+	6.8	1.3	E31106
Do.	do.	T	1/4-inch by 0		2,190	2,420	2,580	11.3	2.4	E31107
Rawl										
Rawl	Winifrede	T	5-inch lump		2,760	2,840	2,910+	5.3	.5	B94917
Do.	do.	T	5- by 3-inch		2,800	2,900	2,910+	6.3	.5	B94918
Do.	do.	T	3- by 2-inch (W)		2,790	2,910+	-	7.7	.5	B94919
Do.	do.	T	2-inch by 0		2,720	2,790	2,910	10.1	.5	B94920
Red Jacket										
Mitchell Branch	Cedar Grove	T	5-inch lump		-	2,910+	-	5.4	.9	B8220
Do.	do.	T	5- by 3-inch		-	2,910+	-	5.2	1.0	B8245
Do.	do.	T	3- by 2-inch		2,570	2,680	2,780	6.2	1.3	B8246
Do.	do.	T	2-inch by 0		2,490	2,580	2,800	6.3	1.2	B8219
Red Jacket No. 6	Alma	M		4	2,470 (1)	2,910+(3)	-	4.1	.6	B6672 to B6675
						2,550 (1)	2,690 (1)			
Do.	do.	T	Run-of-mine		-	2,910+	-	6.2	.7	B6620
Red Jacket No. 17	Cedar Grove	T	5-inch lump		2,560	2,670	2,840	4.7	.8	F6145
Do.	do.	T	5- by 3-inch (W)		2,760	2,860	2,910+	5.7	.8	F6146
Do.	do.	T	3- by 1-1/4-inch (W)		2,730	2,840	2,910+	5.1	.8	F6147
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,680	2,750	2,910+	5.1	.9	F6148
Do.	do.	T	1/4-inch by 0		2,250	2,540	2,700	10.3	1.2	F6149
Sprigg										
Alma	Alma	T	Run-of-mine		2,640	2,740	2,910+	3.7	.6	B93361
Surosa										
Dayton	Cedar Grove	T	5-inch lump		2,910	2,910+	-	7.1	.9	B9335
Do.	do.	T	5- by 2-inch		2,910	2,910+	-	6.6	1.1	B93359
Do.	do.	T	2-inch by 0		2,640	2,710	2,910	5.8	1.2	B93360
New Howard	do.	T	5-inch lump		2,800	2,900	2,910+	7.7	1.1	D50881
Do.	do.	T	5- by 2-inch		2,910+	-	-	7.1	1.1	D50882
Do.	do.	T	2-inch by 0		2,580	2,670	2,770	6.9	1.7	D50883
Thacker										
Ames 2 A	do.	T	6-inch lump		2,910+	-	-	4.9	.9	D49357
Do.	do.	T	6- by 2-1/2-inch		2,840	2,910+	-	6.4	1.1	D49358
Do.	do.	T	2-1/2-inch by 0		2,730	2,870	2,910	8.5	1.2	D49359
Thacker	do.	T	5-inch lump		-	2,920+	-	4.4	.8	B8395
Do.	do.	T	5- by 3-inch		-	2,910+	-	5.2	.8	B8394
Do.	do.	T	3- by 2-inch		2,800	2,840	2,920+	6.1	1.0	B8393
Do.	do.	T	2-inch by 0		2,610	2,750	2,810	7.1	1.3	B8392
War Eagle										
War Eagle	Pond Creek	T	Run-of-mine		2,800	2,860	2,890	6.9	.9	D51780
Do.	do.	T	2-inch lump		2,550	2,790	2,910+	3.5	.7	F5251
Do.	do.	T	2-inch by 0		2,450	2,770	2,910+	9.9	.8	F5252
Wharncliff										
Ben Creek	Cedar Grove	T	Run-of-mine		2,760	2,860	2,910+	7.8	.9	B74573
Williamson										
Rawl No. 3	No. 2 Gas	T	7- by 3-inch (W)		2,910+	-	-	4.8	.6	D81573
Do.	do.	T	3- by 2-inch (W)		2,890	2,910+	-	4.6	.7	D81574
Do.	do.	T	2-inch by 0		2,620	2,720	2,890	8.4	.6	D81575
Monongalia County										
Almina										
Gilbert Davis No. 5	Sewickley	T	Run-of-mine		1,990	2,240	2,380	11.8	3.5	A29545
Canyon										
Canyon	Pittsburgh	T	5- by 2-inch (W)		2,360	2,570	2,680	8.4	2.0	D58563
Do.	do.	T	2- by 1-1/4-inch (W)		2,360	2,590	2,680	9.0	2.0	D58564
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,450	2,630	2,710	8.8	1.9	D58565
Do.	do.	T	3/4-inch by 0		2,130	2,360	2,570	10.2	2.6	D58566
Cassville										
Brock	Sewickley	T	2-1/2-inch by 0		2,080	2,200	2,380	11.8	2.8	A48872
Do.	do.	T	Run-of-mine		2,140	2,270	2,400	12.8	2.5	A48873
Brock No. 4	do.	T	4- by 2-inch (W)		2,020	2,140	2,420	10.6	3.8	E27660

1 M, mine sample; T, tipple sample. 2 W, washed.

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State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Monongalia County (Con.)										
Cassville										
Brock No. 4	Sewickley	T	2- by 1-1/4-inch (W)		2,010	2,190	2,420	10.4	3.6	E27661
Do.	do.	T	1-1/4-inch by 0 (W)		1,970	2,120	2,400	12.0	4.3	E27662
Bunker	do.	T	Run-of-mine		2,110	2,330	2,520	13.2	2.9	B66102
Do.	do.	T	5- by 2-inch (W)		2,150	2,460	2,580	12.4	2.0	F15934
Do.	do.	T	2- by 1-1/4-inch (W)		2,210	2,470	2,620	11.8	1.9	F15935
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,360	2,550	2,610	11.5	1.9	F15936
Do.	do.	T	3/4- by 3/8-inch (W)		2,100	2,460	2,600	11.3	1.9	F15937
Do.	do.	T	3/8-inch by 0 (W)		2,100	2,280	2,530	11.7	1.7	F15938
Dellslow										
Industrial Collieries Corporation No. 21	Upper Freeport	M		6	2,750	2,910+(1) 2,800 (5)	2,910+(4) 2,870 (1)	9.5	1.0	B38975 to B38980
Edna										
Booth No. 6	Pittsburgh	T	2- by 3/8-inch (W)		2,030	2,130	2,440	8.7	3.1	E8617
Do.	do.	T	3/8-inch by 0		1,950	2,080	2,390	8.9	3.4	E8618
South Union No. 11	do.	T	5- by 2-inch (W)		2,090	2,160	2,430	8.1	3.0	E44625
Do.	do.	T	2- by 1-1/4-inch (W)		2,090	2,170	2,420	8.5	2.7	E44626
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,090	2,180	2,520	7.9	2.5	E44627
Do.	do.	T	3/4- by 3/8-inch (W)		2,090	2,190	2,540	8.0	2.7	E44628
Do.	do.	T	3/8-inch by 0 (W)		2,110	2,190	2,520	7.1	2.6	E44629
Everettville										
Federal No. 3	do.	M		3	2,060	2,130	2,240	8.0	2.4	A33343 to A33345
Do.	do.	T	Run-of-mine		2,090	2,200	2,410	9.7	1.9	B21914
Mary	Sewickley	T	do.		2,080	2,370	2,530	11.7	4.1	B21769
Gilbert										
South Penn	do.	T	do.		1,990	2,240	2,380	12.4	3.2	A29565
Grandville										
Mona	Pittsburgh	T	4-inch lump		2,320	2,510	2,700	6.4	2.6	B21740
Do.	do.	T	4- by 2-1/2-inch		2,320	2,450	2,670	7.5	2.7	B21741
Do.	do.	T	2-1/2- by 1-inch		2,090	2,420	2,560	8.0	2.7	B21742
Do.	do.	T	1-inch by 0		1,800	2,230	2,420	9.0	3.4	B21743
Guyaux (Pennsylvania)										
Frederick No. 1	do.	T	Run-of-mine		2,030	2,280	2,510	7.5	2.9	B27400
Hilderbrand										
Gabbert	Sewickley	T	do.		2,110	2,270	2,540	12.7	3.7	D90915
Laurel Point										
Mon-Ark No. 2	Pittsburgh	T	do.		2,030	2,420	2,520	11.6	3.0	C88223
Lowsville										
Anna May	Sewickley	T	do.		2,090	2,320	2,430	12.3	4.0	A29491
Maidsville										
Arnold No. 1	Pittsburgh	T	5- by 2-inch		2,210	2,440	2,720	9.2	2.7	B84268
Do.	do.	T	2-inch by 0		2,070	2,210	2,440	9.6	3.2	B84269
Arnold No. 2	do.	T	5- by 2-inch		2,370	2,460	2,710	8.8	1.8	B84270
Do.	do.	T	2-inch by 0		2,070	2,210	2,480	8.9	1.8	B84271
Christopher No. 2	do.	T	5- by 1-1/8-inch		2,210	2,470	2,600	9.8	2.9	C30344
Do.	do.	T	1-1/8- by 5/8-inch		2,130	2,410	2,520	11.0	3.0	C30345

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Do.	do.	T	5/8-inch by 0	2,090	2,300	2,420	10.1	3.2	C30346
Emily	do.	T	5- by 2-inch	2,520	2,580	2,700	8.2	2.2	B58457
Do.	do.	T	2- by 1-1/4-inch	2,480	2,550	2,720	8.2	2.3	B58458
Do.	do.	T	1-1/4- by 3/4-inch	2,480	2,570	2,720	7.9	2.1	B58459
Do.	do.	T	3/4-inch by 0	2,090	2,200	2,410	8.3	2.6	B58460
Maiden	do.	T	5- by 2-inch (W)	2,180	2,570	2,680	8.7	2.3	D70332
Do.	do.	T	2- by 1-1/4-inch (W)	2,180	2,570	2,680	9.4	2.1	D70333
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,470	2,590	2,680	9.1	2.2	D70334
Do.	do.	T	3/4-inch by 0 (W)	2,000	2,210	2,470	13.6	3.2	D70335
Robinson Run	Redstone	T	Run-of-mine	2,520	2,630	2,780	11.0	1.9	E26990
Robinson Run No. 1	Pittsburgh	T	5- by 1-1/4-inch	2,000	2,110	2,370	10.9	4.1	B88840
Do.	do.	T	1-1/4-inch by 0	2,050	2,150	2,460	8.8	4.7	B92495
Robinson Run No. 2	do.	T	5- by 2-inch	2,100	2,460	2,660	7.8	2.6	B58340
Do.	do.	T	2- by 5/8-inch	2,110	2,430	2,600	8.8	2.8	B58341
Do.	do.	T	5/8-inch by 0	2,020	2,250	2,440	9.7	3.2	B58342
Rosedale	do.	T	5-inch lump	2,030	2,250	2,480	6.6	2.7	B21698
Do.	do.	T	5- by 1-inch	2,030	2,200	2,480	8.3	2.9	B21699
Do.	do.	T	1- by 1/2-inch	1,970	2,230	2,430	8.6	3.1	B21700
Do.	do.	T	1/2-inch by 0	1,960	2,180	2,420	9.8	3.3	B21701
Rosedale No. 1	do.	T	Run-of-mine	2,410	2,520	2,770	14.0	2.7	B83277
Do.	do.	T	5- by 3/4-inch	2,440	2,520	2,620	10.2	2.5	D51106
Do.	do.	T	3/4- by 3/8-inch	2,000	2,130	2,360	11.7	3.3	D51107
Rosedale No. 3	do.	T	Run-of-mine	2,110	2,240	2,520	9.2	2.9	B83551
Rosedale No. 8	Sewickley	T	4- by 2-inch (W)	2,090	2,430	2,560	12.0	1.9	E43075
Do.	do.	T	2-inch by 0 (W)	2,160	2,450	2,570	12.7	1.8	E43076
Mona									
Arkwright No. 1	Pittsburgh	T	5- by 2-inch (W)	2,060	2,140	2,450	9.1	2.6	E8190
Do.	do.	T	2- by 1-1/4-inch	2,140	2,460	2,600	7.5	2.4	E8191
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,140	2,510	2,610	7.4	2.4	E8192
Do.	do.	T	3/4- by 3/8-inch (W)	2,150	2,500	2,600	7.2	2.5	E8193
Do.	do.	T	3/8-inch by 0	2,070	2,140	2,330	9.7	2.8	E8194
Mon-Ark	do.	T	Run-of-mine	2,130	2,480	2,750	8.0	2.8	B83279
Morgantown									
Airport	do.	T	do.	2,080	2,150	2,440	9.3	2.5	D44881
Do.	Bakerstown	T	5- by 2-inch	2,020	2,100	2,210	8.5	2.3	D90454
Do.	do.	T	2-inch by 0	1,900	2,020	2,360	9.7	2.5	D90455
Booth	Pittsburgh	T	Run-of-mine	1,980	2,180	2,440	9.2	3.7	B21796
Eldridge	Sewickley	T	do.	2,090	2,420	2,650	12.8	3.3	D69435
Do.	Pittsburgh	T	do.	2,000	2,360	2,520	9.8	2.4	D69436
Ellis	do.	T	do.	2,100	2,240	2,490	10.0	3.1	E79564
Emerly	do.	T	do.	1,830	2,230	2,420	8.3	2.8	B21714
Lockview	do.	T	3/4-inch lump	1,980	2,260	2,460	9.1	2.7	B66100
Do.	do.	T	3/4-inch by 0	2,000	2,240	2,470	9.3	2.9	B66101
Do.	do.	T	Run-of-mine	2,040	2,200	2,430	8.7	2.4	E36901
Lucille	do.	T	5- by 1-1/4-inch	2,020	2,230	2,460	14.1	3.0	E6457
Do.	do.	T	1-1/4- by 3/4-inch	2,020	2,210	2,450	12.6	2.9	E6458
Do.	do.	T	3/4-inch by 0	1,970	2,170	2,400	9.5	2.9	E6459
Mason-Dixon	do.	T	Run-of-mine	1,980	2,060	2,390	7.5	2.5	D84714
Mon-Ark No. 3	Sewickley	T	do.	2,680	2,780	2,910+	13.8	1.2	C89410
Murphy No. 2	Pittsburgh	T	do.	1,940	2,160	2,490	9.1	2.7	D96286
Pursglove No. 1	do.	T	5-inch lump	2,010	2,320	2,540	7.1	2.9	B21642
Do.	do.	T	5- by 2-inch	2,030	2,490	2,580	8.2	2.4	B21643
Do.	do.	T	2- by 1-inch	2,030	2,350	2,500	9.2	2.4	B21644
Do.	do.	T	1- by 1/2-inch	1,940	2,320	2,430	9.7	2.6	B21645
Do.	do.	T	1/2-inch by 0	1,940	2,150	2,360	8.0	2.5	B21646
Pursglove No. 5	do.	T	4-inch lump	2,030	2,210	2,400	6.4	3.2	B21710
Do.	do.	T	4- by 1-1/4-inch	1,930	2,100	2,330	8.7	3.5	B21711
Do.	do.	T	1-1/4- by 1/2-inch	1,890	2,110	2,340	9.0	3.4	B21712
Do.	do.	T	1/2-inch by 0	1,890	2,090	2,340	8.0	3.5	B21713
Yale	do.	T	Run-of-mine	2,050	2,260	2,460	11.4	2.8	E34461

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Monongalia County (Con.)										
National										
Christopher No. 5	Pittsburgh	T	5-inch lump		2,040	2,140	2,450	8.3	3.2	B83842
Do.	do.	T	4- by 2-inch (W)		2,170	2,500	2,620	7.5	2.6	E8195
Do.	do.	T	2- by 1-1/4-inch (W)		2,130	2,500	2,610	8.1	2.6	E8196
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,090	2,490	2,620	7.7	2.6	E8197
Do.	do.	T	5/8-inch by 0 (W)		2,010	2,180	2,490	8.5	3.2	E8198
National	do.	T	Run-of-mine		2,170	2,350	2,600	8.4	1.9	A71853
Do.	do.	T	4-inch lump		1,860	2,270	2,440	8.0	2.8	B21792
Do.	do.	T	4- by 1-1/4-inch		1,840	2,270	2,420	7.1	2.6	B21794
Do.	do.	T	1-1/4- by 5/8-inch		1,830	2,230	2,420	7.9	2.8	B21793
Do.	do.	T	5/8-inch by 0		1,970	2,080	2,440	8.0	3.3	B21795
Osage										
Christopher No. 3	do.	T	5-inch lump		2,400	2,460	2,610	9.3	2.5	C30204
Do.	do.	T	5- by 2-inch		2,450	2,520	2,680	8.3	2.5	C30205
Do.	do.	T	2- by 1-1/8-inch		2,210	2,450	2,600	8.6	2.4	C30206
Do.	do.	T	1-1/8-inch by 0		2,150	2,220	2,490	8.9	2.6	C30207
Louise	Sewickley	T	5- by 2-inch		2,500	2,620	2,730	12.1	2.1	B66011
Do.	do.	T	2- by 1-1/4-inch		2,270	2,540	2,610	11.2	2.6	B66012
Do.	do.	T	1-1/4- by 3/4-inch		2,270	2,570	2,650	12.2	2.6	B66013
Do.	do.	T	3/4- by 3/8-inch		2,260	2,550	2,620	11.7	2.6	B66014
Do.	do.	T	3/8-inch by 0		2,270	2,540	2,600	12.0	2.8	B66015
Osage No. 1	Pittsburgh	T	Run-of-mine		2,180	2,480	2,660	9.7	2.8	A83844
Osage No. 2	Sewickley	T	do.		2,550	2,600	2,740	11.2	2.0	A83845
Stewart	Redstone	T	do.		2,460	2,580	2,680	11.6	1.9	E77506
Point Marion (Pennsylvania)										
Virginia	Pittsburgh	T	do.		2,100	2,280	2,550	6.7	2.5	E79565
Pursglove										
Pursglove No. 2	Sewickley	T	5- by 2-inch		2,420	2,480	2,710	12.8	2.5	B83637
Do.	do.	T	2- by 1-1/4-inch		2,430	2,530	2,730	11.8	2.3	B83638
Do.	do.	T	1-1/4- by 3/8-inch		2,440	2,540	2,750	11.0	2.2	B83639
Do.	do.	T	3/8-inch by 0		2,130	2,230	2,430	15.0	2.9	B83640
Pursglove No. 15	Pittsburgh	T	5-inch lump		2,140	2,260	2,500	7.6	3.1	B83629
Do.	do.	T	5- by 2-inch (W)		2,440	2,550	2,700	6.1	1.8	E8199
Do.	do.	T	2- by 1-1/4-inch (W)		2,510	2,570	2,680	6.0	1.9	E8200
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,460	2,580	2,700	6.4	1.8	E8201
Do.	do.	T	3/8-inch by 0		2,060	2,120	2,330	9.1	2.6	E8202
Randall										
Gilbert Davis No. 6	do.	T	Run-of-mine		2,090	2,260	2,380	10.2	2.5	A29563
Do.	Sewickley	T	do.		1,990	2,260	2,380	11.2	2.7	A29564
Eureka	Pittsburgh	M		2	2,160	2,340	2,450	10.1	2.5	A5529 and A5530
Richard										
Bethlehem No. 21	Upper Freeport	T	Run-of-mine		2,570	2,660	2,730	11.1	1.8	D7199
Scotts Run										
Enrico	Sewickley	T	do.		2,620	2,700	2,840	11.6	2.0	D71105
Stewartstown										
Raymond No. 2	Pittsburgh	T	do.		2,030	2,100	2,450	10.1	3.5	D4906
Smith No. 4	do.	T	do.		2,030	2,210	2,500	10.4	2.4	D4905

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Westover									
Mon-Ark No. 4	do.	T	do.	2,000	2,130	2,360	12.8	4.4	C88211
Do.	do.	T	2- by 3/4-inch	2,070	2,210	2,450	9.5	3.3	E26380
Do.	do.	T	3/4-inch by 0	2,060	2,130	2,420	9.2	3.4	E26381
Do.	do.	T	5- by 1-1/4-inch	2,110	2,190	2,470	9.9	3.3	E26382
Do.	do.	T	1-1/4-inch by 0	2,100	2,210	2,500	8.5	2.9	E26383
Nicholas County									
Craigsville									
Burton	Sewell	T	5- by 3-inch (W)	2,340	2,400	2,470	3.9	.8	D54575
Do.	do.	T	3- by 1-1/4-inch (W)	2,360	2,420	2,600	3.9	.5	D54576
Do.	do.	T	1-1/4- by 5/8-inch (W)	2,370	2,450	2,580	4.9	.6	D54577
Do.	do.	T	5/8- by 3/8-inch (W)	2,360	2,470	2,680	6.3	.7	D54578
Do.	do.	T	1-1/4- by 3/8-inch (W)	2,400	2,540	2,800	7.7	.7	F19816
Do.	do.	T	3/8-inch by 0 (W)	2,450	2,610	2,720	5.9	.8	F19817
Royal No. 4	do.	T	Run-of-mine	2,210	2,380	2,590	5.2	1.0	D55745
Do.	do.	T	4-inch lump	1,960	2,170	2,450	3.7	1.8	D62187
Do.	do.	T	4-inch by 0	2,180	2,420	2,730	4.9	.9	D62188
Sewell Chief	do.	T	8- by 1-inch	2,460	2,530	2,700	5.0	.7	F19160
Do.	do.	T	1-inch by 0	2,410	2,510	2,760	5.6	.9	F19161
Holcomb									
Sterling Sewell	do.	T	8- by 3-inch (W)	2,340	2,510	2,770	2.0	.6	E91506
Do.	do.	T	3- by 1-inch (W)	2,340	2,580	2,790	2.1	.7	E91507
Do.	do.	T	1- by 1/8-inch (W)	2,590	2,720	2,870	3.3	.7	E91508
Do.	do.	T	1/8-inch by 0	2,480	2,620	2,800	6.3	.7	E91509
Hookersville									
Peerless	No. 2 Gas	T	6-inch lump	2,210	2,390	2,620	2.4	.9	D80756
Do.	do.	T	6- by 2-1/2-inch (W)	2,140	2,220	2,460	2.6	.5	D80757
Do.	do.	T	2-1/2- by 1-1/4-inch (W)	2,660	2,760	2,870	5.0	.7	D80758
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,620	2,700	2,860	5.9	.8	D80759
Do.	do.	T	3/4- by 3/8-inch (W)	2,620	2,680	2,830	3.9	.7	D80760
Do.	do.	T	3/8-inch by 0	2,540	2,630	2,790	8.5	.9	D80761
Lee									
Quinwood No. 2	Sewell	T	12- by 6-inch	2,330	2,520	2,840	1.6	.5	D34201
Do.	do.	T	6- by 3-inch (W)	2,380	2,780	2,910+	3.0	.5	D34202
Do.	do.	T	3- by 1-1/2-inch (W)	2,660	2,840	2,910	3.9	.4	D34203
Do.	do.	T	1-1/2- by 3/4-inch (W)	2,640	2,840	2,910+	4.2	.5	D34204
Do.	do.	T	3/4- by 1/2-inch (W)	2,310	2,620	2,680	3.9	.5	D34205
Do.	do.	T	1/2-inch by 0 (W)	2,620	2,660	2,710	4.4	.5	D34206
Lockwood									
Clearfield	Big Eagle	T	Run-of-mine	2,840	2,910+	-	6.2	.7	E34460
Marybill									
Panther No. 5	Sewell	T	8- by 3-inch (W)	2,380	2,600	2,840	2.2	.6	F19583
Do.	do.	T	3- by 2-inch (W)	2,380	2,650	2,890	2.0	.6	F19584
Do.	do.	T	2-inch by 0 (W)	2,400	2,700	2,770	4.5	.7	F19585
Persinger									
Brown No. 2	Lower Kittanning	T	Run-of-mine	2,870	2,910+	-	12.1	.8	B91132
Richwood									
Donegan No. 1	Sewell	T	do.	2,540	2,800	2,910+	4.1	.6	F20218
Summerville									
Cornelia	Eagle	T	Run-of-mine (W)	2,910+	-	-	6.7	.7	F19818
Delmont-Peerless	No. 2 Gas	T	do.	2,470	2,550	2,620	3.5	.8	D54458
Do.	do.	T	1- by 3/8-inch (W)	2,310	2,470	2,650	3.8	.8	D54459
Do.	do.	T	3/8-inch by 0	2,360	2,550	2,720	6.4	.9	D54460
Do.	do.	T	2-inch by 0 (W)	2,470	2,700	2,840	5.6	.8	D54461
Rays Run No. 1	Eagle (Big Eagle)	T	Run-of-mine	2,910+	-	-	7.0	.8	D56286
Rex Eagle No. 1	Eagle	T	do.	2,910+	-	-	4.7	.8	E10429
Swiss									
Otter Creek	do.	T	do.	2,860	2,910+	-	6.2	.6	F18496
Tioga									
Birch Valley	Lower Kittanning	T	do.	2,870	2,910+	-	12.7	.7	F19815

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State county town and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Nicholas County (Con.)										
Tioga										
Catlette	Lower Kittanning	T	Run-of-mine		2,880	2,910+	-	9.4	1.1	B91069
Tioga No. 5	No. 5 Block	T	do.		2,110	2,280	2,510	7.5	.9	B91070
Do.	Tioga	T	4-inch by 0		2,420	2,620	2,730	6.6	1.1	D55901
Ohio County										
Edgewood										
Echo	Pittsburgh	T	Run-of-mine		1,930	2,020	2,440	8.6	4.3	B33034
Storch	do.	T	2-3/4-inch lump		1,960	2,030	2,410	8.0	4.6	B32998
Do.	do.	T	2-3/4- by 1-3/4-inch		1,920	2,050	2,430	9.9	4.2	B32999
Do.	do.	T	1-3/4- by 1-inch		1,920	2,080	2,410	9.9	4.2	B33000
Do.	do.	T	1-inch by 0		1,940	2,000	2,250	10.7	4.3	B33001
Elm Grove										
Mobley	do.	T	5-inch lump		1,960	2,040	2,400	8.3	5.0	B32841
Do.	do.	T	5- by 2-inch		1,920	2,040	2,450	8.5	4.3	B32842
Do.	do.	T	2- by 1-1/4-inch		1,920	2,080	2,430	8.3	3.9	B32843
Do.	do.	T	3/4-inch by 0		1,950	1,990	2,230	10.5	3.9	B32844
Skillcorn	do.	M		3	1,960	2,130	2,320	8.9	3.6	A32386 to A32388
Valley Camp No. 1	do.	T	5-inch lump		1,970	2,030	2,200	8.2	4.4	D84974
Do.	do.	T	5- by 2-inch		1,940	2,030	2,420	6.9	3.6	D84975
Do.	do.	T	2- by 1-1/4-inch (W)		1,900	2,050	2,420	7.6	2.9	D84976
Do.	do.	T	1-1/4- by 5/8-inch (W)		1,870	2,050	2,420	8.3	2.9	D84977
Do.	do.	T	5/8-inch by 0		1,970	2,030	2,200	10.9	3.4	D84978
Valley Camp No. 5	do.	T	7- by 1-3/8-inch (W)		1,980	2,080	2,430	8.6	4.3	D88945
Do.	do.	T	1-3/8-inch by 0		2,000	2,040	2,260	11.1	4.2	D88946
Triadelphia										
Dartwell	do.	T	Run-of-mine		1,950	2,000	2,460	7.9	4.0	B32845
Valley Camp No. 3	do.	T	5-inch lump		1,930	2,060	2,330	7.8	5.0	D84979
Do.	do.	T	5- by 2-inch (W)		1,970	2,040	2,380	6.6	3.5	D84980
Do.	do.	T	2- by 1-1/4-inch (W)		1,970	2,020	2,380	7.5	3.2	D84981
Do.	do.	T	1-1/4- by 5/8-inch (W)		1,970	2,090	2,400	7.3	2.7	D84982
Do.	do.	T	5/8-inch by 0		2,010	2,120	2,420	12.9	3.0	D84983
Warwood										
Costanzo	do.	T	6-inch lump		1,970	2,050	2,460	7.5	2.8	B32875
Do.	do.	T	6- by 1-1/4-inch		1,970	2,080	2,460	8.2	3.3	B32876
Do.	do.	T	1-1/4-inch by 0		1,990	2,120	2,380	11.4	2.9	B32877
Richland	do.	T	5-inch lump		1,930	2,050	2,390	7.5	4.1	B32822
Do.	do.	T	5- by 1-1/4-inch		2,030	2,290	2,440	13.3	3.3	B32823
Do.	do.	T	1-1/4-inch by 0		1,970	2,130	2,350	12.8	3.2	B32824
Warwood	do.	T	Run-of-mine		1,970	2,020	2,480	8.2	4.3	B32969
Pocahontas County										
Jerryville (Webster County)										
Donegan No. 7	Sewell	T	do.		2,910+	-	-	6.5	.8	D56543
Do.	do.	T	6- by 3-inch		2,450	2,610	2,850	1.7	.5	E8766
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	7.4	.5	E8767
Do.	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	9.4	.4	E8768

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Do.	do.	T	3/4-inch by 0		2,910+	-	-	7.6	.4	E8769
Donegan No. 8	do.	T	3-inch lump		2,910+	-	-	3.8	.6	D56538
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	4.7	.5	D56539
Do.	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	7.6	.6	D56540
Do.	do.	T	3/4-inch by 0		2,910+	-	-	9.1	.6	D56541
Do.	do.	T	6- by 3-inch		2,720	2,830	2,900	3.5	.6	E1181
Preston County										
Albright										
Deep Hollow	Upper Freeport	T	1-1/4-inch by 0		2,860	2,910+	-	10.0	1.2	B43118
Do.	do.	T	1-1/4- by 3/4-inch		2,660	2,770	2,850	13.3	1.6	E50015
Do.	do.	T	3/4-inch by 0		2,610	2,670	2,840	10.0	1.6	E50016
Do.	do.	T	Run-of-mine		2,600	2,660	2,820	12.5	1.8	E81078
June	do.	T	2-inch lump		2,730	2,840	2,910+	11.1	1.7	D71524
Do.	do.	T	2-inch by 0		2,700	2,800	2,890	14.5	2.1	D71525
Kefover	do.	T	Run-of-mine		2,830	2,910	2,910+	11.6	1.1	B66376
Marie No. 2	Bakerstown	T	do.		1,990	2,340	2,470	10.8	1.8	E9632
Nancy Jane	Upper Freeport	T	do.		2,910+	-	-	6.5	.6	D71739
Do.	do.	T	do.		2,620	2,780	2,910+	11.7	1.5	D71740
Sugar Valley	do.	T	do.		2,850	2,910+	-	9.6	1.1	E74739
Arthurdale										
Arthurdale	Bakerstown	T	do.		2,000	2,190	2,430	7.1	1.6	B43044
Do.	do.	T	5-1/2- by 2-1/2-inch		2,410	2,490	2,660	7.0	1.4	B82767
Do.	do.	T	2-1/2- by 3/4-inch		2,170	2,430	2,580	8.8	1.6	B82768
Do.	do.	T	3/4-inch by 0		2,120	2,280	2,500	7.2	1.6	B82769
Do.	do.	M		2	2,450	2,910+(1)	-	5.7	1.1	D90691 and D90692
						2,190 (1)	2,380 (1)			
Fairfax No. 2	Upper Freeport	T	Run-of-mine		2,600	2,700	2,870	10.5	1.3	E56793
Bretz										
Margaret No. 2	do.	T	do.		2,780	2,890	2,910+	10.9	1.3	D60043
Miller No. 2	do.	T	do.		2,680	2,780	2,870	11.0	.9	A41701
Caddell										
Carolyn No. 3	do.	T	do.		2,670	2,760	2,910	12.2	1.2	E43077
Cascade										
Bull Run	do.	T	1-1/4-inch lump		2,650	2,740	2,910+	9.1	1.3	E69154
Do.	do.	T	1-1/4- by 3/4-inch		2,840	2,910+	-	9.7	.9	E69155
Do.	do.	T	3/4- by 3/8-inch		2,800	2,870	2,910+	9.5	.8	E69156
Do.	do.	T	3/8-inch by 0		2,660	2,750	2,910+	9.3	1.1	E69157
Enterprise	do.	T	Run-of-mine		2,800	2,870	2,910+	9.1	1.0	B43045
Hawley	do.	T	do.		2,720	2,810	2,910	10.1	1.0	A32787
Hawley No. 1	do.	T	do.		2,870	2,910+	-	10.2	.9	B43046
Murphy	do.	T	do.		2,620	2,750	2,810	15.6	1.1	A32788
Crellin (Maryland)										
Banner	Kittanning	M		1	2,620	2,700	2,900	7.2	1.3	B56674
Do.	do.	T	2-inch lump		2,230	2,490	2,630	10.6	2.6	B56675
Do.	do.	T	2-inch by 0		2,230	2,510	2,690	9.1	1.8	B56676
Do.	do.	T	3/4-inch by 0		2,230	2,500	2,660	8.4	1.9	B56677
Banner No. 1	Middle Kittanning	T	Run-of-mine		2,620	2,740	2,850	8.4	1.0	A21885
Howesville										
Kemp No. 2	Bakerstown	T	do.		2,080	2,430	2,570	11.1	1.8	E8873
Parson No. 2	Upper Freeport	T	do.		2,080	2,420	2,540	14.4	3.0	E9538
Ream	do.	T	do.		2,140	2,240	2,520	12.5	2.9	D47971
Ream No. 1	do.	T	do.		2,520	2,660	2,790	9.3	1.3	B66375
Do.	do.	T	4-inch lump		2,050	2,230	2,520	10.7	3.2	D50326
Do.	do.	T	4- by 2-1/8-inch		2,130	2,310	2,570	11.4	2.8	D50327
Do.	do.	T	2-1/8-inch by 0		2,180	2,570	2,620	12.7	2.3	D50328
Ream No. 3	do.	T	Run-of-mine		2,630	2,750	2,910+	10.7	1.2	B66455
Irona										
Eureka	do.	T	do.		2,560	2,680	2,820	8.7	1.2	B59548
Kingwood										
Brooke	do.	T	2-inch lump		1,870	2,150	2,470	11.9	3.5	D96606

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Preston County (Con.)										
Kingwood										
Brooke	Upper Freeport	T	2-inch by 0		2,070	2,400	2,550	13.0	2.2	D96607
Brooke No. 10	do.	T	Run-of-mine		2,680	2,780	2,890	10.4	1.4	D48766
Coronet No. 1	Bakerstown	T	do.		1,870	2,050	2,330	12.4	3.6	D95710
George Lee	do.	T	do.		2,570	2,690	2,750	8.0	.9	A32685
Lucky Jack	Upper Freeport	T	do.		2,180	2,340	2,510	12.3	2.4	A28889
Lump No. 1	Bakerstown	M		2	2,240	2,460	2,510	7.9	.9	A28925 and A28926
Do.	do.	T	Run-of-mine		2,360	2,510	2,650	11.3	.9	A28937
Maplewood	do.	T	9- by 3-inch		2,100	2,180	2,420	8.6	2.7	D48251
Do.	do.	T	3-inch by 0		2,130	2,230	2,450	10.6	2.7	D48252
Marrara	Upper Freeport	T	Run-of-mine		2,620	2,740	2,880	14.7	1.8	B83206
Morgan Run	do.	T	do.		1,940	2,360	2,520	15.2	4.0	D71738
Patterson No. 1	Bakerstown	T	do.		2,000	2,050	2,360	10.6	2.4	D48921
Riley No. 6	Upper Freeport	T	do.		2,780	2,870	2,910+	10.2	.9	E25824
Vivian	do.	T	do.		2,080	2,390	2,510	12.8	3.2	A65128
Manown										
Ream No. 2	do.	T	do.		2,590	2,720	2,850	9.7	1.1	B66328
Do.	do.	T	do.		2,100	2,360	2,420	12.2	2.8	D50880
Masontown										
Bull Run No. 4	do.	T	do.		2,570	2,730	2,780	9.1	1.3	D60572
Carolyn	do.	T	2-inch lump		2,040	2,290	2,550	10.2	2.3	D60231
Do.	do.	T	2- by 1-1/4-inch		2,520	2,680	2,730	14.8	1.9	D60232
Do.	do.	T	1-1/4-inch by 0		2,310	2,570	2,640	10.7	1.9	D60233
Margaret No. 3	do.	T	Run-of-mine		2,700	2,790	2,910	7.9	1.1	E42711
Mattingly										
Borgman No. 5	do.	T	do.		2,150	2,570	2,680	12.0	2.1	D70337
Borgman No. 10	do.	T	do.		2,130	2,450	2,570	14.2	3.3	D70336
Newburg										
Houch No. 4	Kittanning	T	do.		2,910+	-	-	12.2	1.3	E9539
Neville	Upper Freeport	T	do.		1,940	2,220	2,480	13.2	3.3	E8616
Ruth Bell	Pittsburgh	T	1-1/4-inch by 0		2,130	2,250	2,470	8.5	1.8	B83209
Scotch Hill	do.	M		2	2,140	2,460	2,690	7.7	1.6	A32467 and A32468
Preston										
Glenwood	Bakerstown	T	Run-of-mine		2,100	2,190	2,460	7.7	1.8	A81342
Lincoln	do.	T	do.		1,970	2,180	2,460	7.9	2.5	A81343
Reedsville										
Lyons	Upper Freeport	T	do.		2,130	2,370	2,680	10.6	1.7	A29743
Morgan No. 2	do.	T	do.		2,150	2,420	2,570	12.6	3.3	D60638
Reed	do.	T	do.		2,570	2,700	2,780	12.1	1.8	D70690
Sunnyhill No. 6	Bakerstown	T	4-inch lump		1,970	2,050	2,280	8.7	3.7	C96897
Do.	do.	T	4- by 2-inch		1,930	2,040	2,300	11.2	3.5	C96898
Do.	do.	T	2-inch by 0		2,000	2,050	2,280	12.8	3.2	C96899
Do.	Lower Freeport	T	Run-of-mine		2,210	2,470	2,520	13.6	2.6	C96901
Do.	Upper Freeport	T	1-1/4-inch lump		2,150	2,310	2,500	12.5	2.9	D7385
Do.	do.	T	1-1/4-inch by 0		2,050	2,440	2,550	11.9	2.5	D7386
Terra Alta										
Thayer No. 1	Lower Kittanning	T	Run-of-mine		2,680	2,740	2,840	7.9	1.1	A51933

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Tunnelton										
Baker	Upper Freeport	T	do.		2,090	2,310	2,440	12.1	2.5	A41546
Do.	do.	T	do.		2,580	2,720	2,820	12.0	1.2	A65149
B & H	do.	T	do.		2,480	2,580	2,730	9.8	1.4	D94279
Blake	do.	T	do.		2,300	2,510	2,760	10.2	1.3	A4350
Do.	do.	M		3	2,490	2,580	2,660	8.6	1.6	A6850 to A6852
Blaser	do.	T	Run-of-mine		2,070	2,190	2,410	14.7	4.0	A97753
Borgman No. 6	do.	T	do.		2,570	2,590	2,660	11.8	1.7	A65103
Braden No. 1	Bakerstown	T	do.		2,460	2,560	2,780	10.1	.9	E44961
Brooke No. 10	do.	T	10- by 4-inch		2,210	2,280	2,460	6.4	1.5	E64430
Do.	do.	T	14- by 4-inch		2,270	2,440	2,570	6.3	1.2	F7884
Do.	do.	T	4-inch by 0		2,310	2,580	2,730	6.8	1.0	F7886
Camp Chapel	Upper Freeport	T	Run-of-mine		2,080	2,390	2,470	13.7	2.9	A42627
George Lee	do.	T	do.		1,960	2,130	2,340	15.0	2.1	A16000
Gorman No. 1	do.	T	do.		2,020	2,260	2,310	14.0	2.9	A16138
Gorman No. 2	do.	T	do.		2,360	2,410	2,510	13.5	1.9	A16154
Gorman No. 3	do.	T	do.		2,020	2,260	2,310	13.6	3.2	A16139
Houck	do.	T	do.		2,080	2,480	2,570	14.4	4.0	A61754
Kenna No. 1	do.	T	do.		2,560	2,670	2,840	9.7	1.0	A42654
Lick Run	do.	T	do.		1,990	2,080	2,490	11.1	3.2	D84301
Loubert	do.	T	do.		2,050	2,260	2,460	11.4	2.6	A89855
Louis	do.	T	do.		2,080	2,480	2,570	9.8	1.8	A61753
Do.	do.	T	1-1/4-inch lump		2,540	2,600	2,740	9.2	1.3	D93671
Do.	do.	T	1-1/4-inch by 0		2,620	2,700	2,840	10.6	1.3	D93672
Marie No. 1	Bakerstown	T	10- by 3-inch		2,090	2,230	2,440	7.2	2.5	D50458
Do.	do.	T	3-inch by 0		2,000	2,080	2,370	10.3	2.5	D50459
Markwood (Blake)	Upper Freeport	T	Run-of-mine		2,080	2,360	2,520	12.5	3.2	D71737
Model	do.	T	do.		2,150	2,480	2,610	12.0	2.4	E74966
Monitor	do.	T	do.		2,590	2,660	2,840	9.2	1.2	A97723
Monitor No. 2	do.	T	do.		2,130	2,420	2,620	11.0	2.5	D48767
Do.	do.	T	1-1/4-inch lump		2,120	2,430	2,600	8.3	1.8	E42190
Do.	do.	T	1-1/4-inch by 0		2,150	2,470	2,630	10.8	2.2	E42191
Mountain View	do.	T	Run-of-mine		2,170	2,390	2,510	17.9	3.8	A65148
Sigley No. 1	do.	T	do.		2,510	2,580	2,730	10.0	1.6	D94745
Sims	do.	T	do.		2,680	2,730	2,780	9.7	1.2	D47822
Smokeless No. 10	do.	T	do.		2,620	2,680	2,780	10.1	1.5	D58668
Tunnelton	do.	T	do.		2,120	2,310	2,470	13.1	3.8	B82766
Victory	do.	T	do.		2,110	2,290	2,490	10.1	2.3	A89879
<u>Raleigh County</u>										
Abney										
Phillips	Beckley	M		4	2,420	2,590	-	3.7	1.0	94804 to 94807
Do.	do.	T	Run-of-mine		2,450	2,570	2,630	6.5	1.3	94803
Affinity										
Affinity	do.	T	do.		2,660	2,780	2,860	5.6	.7	A42598
Do.	Pocahontas No. 4	T	6-1/4-inch lump		2,460	2,570	2,730	2.6	.8	C41139
Do.	do.	T	6-1/4- by 3-1/4-inch		2,510	2,650	2,770	3.5	.8	C41140
Do.	do.	T	3-1/4- by 1-1/2-inch		2,420	2,510	2,720	3.7	.7	C41141
Do.	do.	T	1-1/2-inch by 0		2,620	2,710	2,790	7.4	.8	C41142
Do.	do.	T	1-1/2-inch lump (W)		2,470	2,550	2,680	3.7	.8	F14652
Do.	do.	T	1-1/2- by 1-inch (W)		2,680	2,780	2,910+	9.0	1.0	F14653
Do.	do.	T	1- by 3/8-inch (W)		2,840	2,910+	-	8.7	.9	F14654
Do.	do.	T	3/8-inch by 0 (W)		2,790	2,890	2,910	7.1	1.0	F14655
Affinity No. 4	do.	T	6-inch lump		2,420	2,620	2,730	2.8	.8	B31638
Do.	do.	T	6- by 3-1/4-inch		2,470	2,660	2,800	3.3	.7	B31639
Do.	do.	T	3-1/4- by 1-1/4-inch		2,790	2,880	2,910+	4.5	.7	B31640
Do.	do.	T	1-1/4- by 3/4-inch		2,870	2,910+	-	6.9	.9	B31641
Do.	do.	T	3/4- by 1/4-inch		-	2,910+	-	6.6	.8	B31642
Do.	do.	T	1/4-inch by 0		-	2,910+	-	6.7	.8	B31643

1 M, mine sample; T, tipple sample. 2 W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Raleigh County (Con.)										
Affinity										
Affinity No. 4	Pocahontas No. 4	M		4	2,780	2,910+(1) 2,830 (3)	2,920+(2) 2,900 (1)	5.7	.9	B31644 to B31647
Alpoca (Wyoming County)										
Gaston	Pocahontas No. 3	T	3-inch lump		2,690	2,840	2,910+	8.2	.6	C363
Do.	do.	T	3- by 1-1/4-inch (W)		2,690	2,800	2,910+	8.8	.5	C364
Do.	do.	T	1-1/4-inch by 0		2,750	2,860	2,910+	6.7	.6	C365
Amaagle										
Amaagle No. 70	Eagle	T	4-inch lump		2,910+	-	-	7.2	.6	C895
Do.	do.	T	4- by 1-1/2-inch		2,880	2,910+	-	8.8	.6	C896
Do.	do.	T	1-1/2-inch by 0		2,740	2,880	2,910+	7.6	.7	C897
Amigo										
Amigo	Pocahontas No. 3	T	5-inch lump		2,810	2,890	2,910+	8.3	.6	B99983
Do.	do.	T	5- by 3-inch		2,840	2,910+	-	8.5	.7	B99984
Do.	do.	T	4- by 1-1/2-inch (W)		2,740	2,840	2,910+	10.0	.6	F15939
Do.	do.	T	1-1/2- by 1-inch (W)		2,870	2,910+	-	7.2	.6	F15940
Do.	do.	T	1-inch by 0 (W)		2,780	2,910	2,910+	7.5	.7	F15941
Wacomah	do.	T	Run-of-mine		2,620	2,740	2,800	6.3	.8	A11842
Do.	do.	T	do.		2,810	2,910+	-	11.0	.8	B97203
J. A. Wood	do.	T	do.		-	2,900+	-	7.9	.7	A11935
Beaver										
Black Knight No. 2	Pocahontas No. 4	T	do.		1,940	2,290	2,520	8.1	.8	F11298
Glade Fuel	Beckley	T	do.		2,890	2,910+	-	10.3	.6	D75130
Beckley										
Hancock	Sewell	T	do.		2,680	2,710	2,780	5.3	.8	D19384
Raleigh No. 5	do.	T	do.		2,120	2,350	2,460	8.3	1.0	A26133
Wiebobet	Firecreek	T	do.		-	2,760+	-	5.3	1.0	A11784
Besoco										
Beckley	Pocahontas No. 3	T	2-1/2- by 1-1/8-inch		2,890	2,950+	-	7.8	.6	A71668
Besoco	do.	T	6- by 2-1/2-inch (W)		2,910+	-	-	22.1	.7	C25881
Do.	do.	T	2-1/2- by 1-1/2-inch (W)		2,910+	-	-	13.1	.7	C25882
Do.	do.	T	1-1/2- by 1/2-inch (W)		2,910+	-	-	14.4	.7	C25883
Do.	do.	T	1-1/4-inch by 0		2,840	2,910+	-	12.2	.8	C25884
Big Stick										
Big Stick	Beckley	T	Run-of-mine		2,860	2,890+	-	8.2	.8	A42599
Do.	do.	T	6-inch lump		2,910+	-	-	3.5	.6	B99528
Do.	do.	T	6- by 3-inch (W)		2,910+	-	-	4.3	.6	B99529
Do.	do.	T	3- by 1-1/4-inch (W)		2,910+	-	-	4.4	.5	B99530
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,910+	-	-	6.0	.6	B99531
Do.	do.	T	5/8- by 3/8-inch (W)		2,870	2,910+	-	6.9	.5	B99532
Do.	do.	T	3/8-inch by 0		2,910+	-	-	6.2	.6	B99533
Birchton										
Birch	Cedar Grove	T	1-1/8-inch lump		2,590	2,710	2,840	4.8	.9	B67238
Do.	do.	T	1-1/8- by 3/8-inch		2,420	2,600	2,800	6.0	1.0	B67239
Do.	do.	T	3/8-inch by 0		2,400	2,580	2,750	6.2	.9	B67240
Birch No. 2	do.	T	5- by 2-inch		2,470	2,570	2,650	6.9	1.0	D30703
Do.	do.	T	1-1/8- by 3/8-inch		2,420	2,520	2,700	7.1	1.0	D30704

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Blue Jay									
Blue Jay No. 5	Beckley	T	Run-of-mine	2,200	2,470	2,590	5.4	.8	A11785
Cleve									
Cleve	Sewell	T	12- by 1-1/2-inch	1,990	2,130	2,470	3.9	1.3	D33483
Do.	do.	T	1-1/2-inch by 0	2,080	2,180	2,470	5.1	.9	D33484
Do.	Fire Creek	T	1-1/2-inch lump	2,430	2,590	2,790	2.2	.7	F7061
Do.	do.	T	1-1/2-inch by 0	2,740	2,840	2,910+	4.8	.8	F7062
Crab Orchard									
Crab Orchard	Sewell	T	8-inch lump	2,180	2,470	2,620	3.6	.7	C887
Do.	do.	T	8- by 3-inch	2,570	2,710	2,890	3.9	.8	C888
Do.	do.	T	1-1/4-inch lump (W)	2,230	2,510	2,680	5.4	.9	E90072
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,590	2,690	2,750	8.3	.8	E90073
Do.	do.	T	3/4-inch by 0 (W)	2,630	2,730	2,840	6.1	.8	E90074
Cranberry									
Cranberry	do.	T	Run-of-mine	2,230	2,420	2,540	3.5	.7	A12183
Do.	do.	T	8-inch lump	2,150	2,270	2,480	3.5	1.7	F12761
Do.	do.	T	8- by 3-inch (W)	2,150	2,470	2,620	2.0	.6	F12762
Do.	do.	T	3- by 1-1/2-inch (W)	2,260	2,560	2,710	2.6	.8	F12763
Do.	do.	T	1-1/2- by 7/8-inch (W)	2,560	2,670	2,730	3.7	.9	F12764
Do.	do.	T	7/8- by 3/8-inch (W)	2,680	2,760	2,910	4.8	.9	F12765
Do.	do.	T	3/8-inch by 0	2,310	2,530	2,680	5.9	1.1	F12766
Eastgulf									
C. H. Mead No. 2	Beckley	T	Run-of-mine	2,620	2,680	2,850	5.1	.7	A18443
Winding Gulf No. 4	Pocahontas No. 4	T	1-1/4-inch lump	2,540	2,710	2,840	3.5	.8	F10718
Do.	do.	T	1-1/4- by 3/4-inch	2,880	2,910+	-	5.9	.8	F10719
Do.	do.	T	3/4- by 3/8-inch	2,890	2,910+	-	6.9	.8	F10720
Do.	do.	T	3/8-inch by 0	2,800	2,890	2,910+	6.0	.9	F10721
Eccles									
Eccles No. 5	Sewell	T	Run-of-mine (W)	2,550	2,690	2,890	4.9	.8	C489
Do.	do.	T	5/8-inch by 0	2,550	2,680	2,840	5.9	.8	C490
Do.	Beckley	T	9- by 3-inch (W)	2,060	2,510	2,640	4.2	.9	D76248
Do.	do.	T	3- by 1-1/4-inch (W)	2,820	2,910+	-	5.1	.7	D76249
Do.	do.	T	1-1/4- by 3/4-inch (W)	2,870	2,910+	-	6.9	.7	D76250
Do.	do.	T	3/4-inch by 0 (W)	2,770	2,860	2,910+	6.9	.8	D76251
Do.	do.	T	Run-of-mine (W)	2,680	2,890	2,910+	7.6	.8	F14656
Eccles No. 6	Sewell	T	1-inch lump (W)	2,570	2,830	2,910+	3.6	.7	D76246
Do.	do.	T	1-inch by 0 (W)	2,700	2,870	2,910+	8.8	.8	D76247
Do.	do.	T	4- by 1-1/2-inch (W)	2,200	2,340	2,680	3.1	.7	E70475
Do.	do.	T	1-1/2-inch by 0 (W)	2,360	2,540	2,800	4.3	.9	E70476
Edwight									
Edwight No. 1	Eagle	T	2-inch lump	2,550	2,680	2,800	5.7	1.1	C891
Do.	do.	T	2-inch by 0	2,620	2,730	2,870	7.0	.8	C892
Hiawatha	do.	T	Run-of-mine (W)	2,470	2,540	2,700	8.2	1.2	F7887
Do.	do.	T	do.	2,730	2,910+	-	6.4	.6	F10951
Hiawatha No. 6	No. 2 Gas	T	2-inch lump (W)	2,910+	-	-	3.8	.6	D75449
Do.	do.	T	2-inch by 0 (W)	2,490	2,680	2,780	4.6	.7	D75450
Do.	do.	T	Run-of-mine (W)	2,650	2,840	2,910	5.8	.7	F7888
Eunice									
Princess Dorothy	Lower Kittanning	T	5-inch lump	-	2,910+	-	2.7	.6	B14985
Do.	do.	T	5- by 2-inch	-	2,910+	-	5.0	.6	B14986
Do.	do.	T	2-inch by 0	-	2,910+	-	6.6	.7	B14987
Fireco									
Douglas	Fire Creek	T	Run-of-mine	2,270	2,510	2,650	6.9	.9	A19388
Lillybrook No. 2	do.	T	do.	2,280	2,580	-	6.7	.9	A19511
Do.	Pocahontas No. 4	T	do.	2,470	2,570	2,730	6.9	.9	B98832
Willabet	do.	T	7/8-inch lump	2,690	2,750	2,910+	8.0	1.1	B99289
Do.	do.	T	7/8-inch by 0	2,690	2,760	2,910+	8.2	1.0	B99290
Francis									
Minter	Pocahontas No. 3	T	Run-of-mine	2,680	2,740	2,760	6.9	.7	A11568
Glen White									
Glen White	Beckley	T	do.	2,740	2,800	2,860	5.6	.8	A19005

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Raleigh County (Con.)										
Glen White										
Glen White	Beckley	T	9- by 3-inch		2,910+	-	-	3.5	.6	B99281
Do.	do.	T	3- by 1-1/4-inch (W)		2,910	2,910+	-	5.4	.6	B99282
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,910	2,910+	-	6.8	.6	B99283
Do.	do.	T	5/8- by 1/4-inch (W)		2,910+	-	-	7.0	.7	B99284
Do.	do.	T	1/4-inch by 0		2,910	2,910+	-	6.2	.7	B99285
Hazy										
Hazy No. 3	Eagle	T	2-inch by 0		2,870	2,910+	-	4.8	.6	C1001
Helen										
Bianchi No. 2	Beckley	T	Run-of-mine		2,420	2,470	2,750	4.7	.7	C94301
Do.	do.	T	do.		2,620	2,840	2,910+	8.9	.6	D6911
East Gulf No. 5	do.	T	do.		2,740	2,870	2,920	6.6	.6	A17555
Helen No. 9	Pocahontas No. 3	M		4	2,580	2,710	2,830	3.4	.9	A92868 to A92871
Do.	do.	T	3-inch lump (W)		2,660	2,720	2,850	5.8	.8	B98707
Do.	do.	T	3- by 1-1/4-inch (W)		2,740	2,820	2,910+	5.5	.6	B98708
Do.	do.	T	1-1/4-inch by 0 (W)		2,740	2,860	2,910+	7.4	.7	B98709
Hotcoal										
Hotcoal	Beckley	T	6-inch lump		-	2,910+	-	2.8	.5	B12622
Do.	do.	T	6- by 2-1/2-inch (W)		-	2,910+	-	3.3	.5	B12623
Do.	do.	T	2-1/2- by 1-inch (W)		-	2,910+	-	7.4	.5	B12624
Do.	do.	T	1- by 5/8-inch (W)		-	2,910+	-	8.5	.6	B12625
Do.	do.	T	5/8-inch by 0		-	2,910+	-	7.0	.6	B12626
Jonben										
Bacontown	Fire Creek	T	Run-of-mine		2,130	2,390	2,570	6.8	.8	A19559
Hunter No. 1	do.	T	do.		2,670	2,750	2,850	6.9	.9	B66821
Hunter No. 2	do.	T	do.		2,610	2,710	2,800	6.1	1.0	B66820
Lanark										
Lanark	Sewell	T	do.		2,680	2,780	2,910+	4.0	.8	C679
Leevale										
Leevale	Powellton	T	2-inch lump		2,180	2,520	2,620	2.5	.7	D72193
Do.	do.	T	2- by 1-1/4-inch		2,050	2,420	2,620	4.7	1.2	D72194
Do.	do.	T	1-1/4- by 3/8-inch		2,050	2,520	2,680	6.0	1.1	D72195
Do.	do.	T	3/8-inch by 0		2,000	2,470	2,620	6.4	1.1	D72196
Leevale No. 2	do.	T	12- by 1-1/4-inch		2,150	2,310	2,500	6.0	1.2	D30831
Do.	do.	T	1-1/4- by 3/8-inch		2,180	2,420	2,500	8.0	1.3	D30832
Do.	do.	T	3/8-inch by 0		2,150	2,380	2,500	9.5	1.4	D30833
Lego										
Lego No. 4	Fire Creek	T	Run-of-mine		2,690	2,800	2,860	6.5	.9	A17975
Lillybrook										
Lillybrook	Pocahontas No. 4	T	1-1/2-inch lump (W)		2,180	2,360	2,570	3.3	.8	F10018
Do.	do.	T	1-1/2- by 7/8-inch (W)		2,600	2,720	2,840	9.3	1.0	F10019
Do.	do.	T	7/8- by 3/8-inch (W)		2,810	2,880	2,910+	7.2	.6	F10020
Do.	do.	T	3/8-inch by 0 (W)		2,740	2,800	2,880	6.7	.9	F10021
Lillybrook No. 1	do.	T	Run-of-mine		2,620	2,810	-	5.6	.9	A9622
Lillybrook No. 3	do.	T	do.		2,600	2,730	2,910+	3.9	.8	B99768
Do.	do.	T	3-1/2-inch lump		2,620	2,720	2,850	3.0	.7	D78841
Do.	do.	T	3-1/2- by 1-1/2-inch (W)		2,620	2,760	2,910+	4.2	.7	D78842

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Do.	do.	T	1-1/2- by 7/8-inch (W)		2,660	2,780	2,910+	5.9	.7	D78843
Do.	do.	T	7/8- by 3/8-inch (W)		2,800	2,910+	-	6.3	.7	D78844
Do.	do.	T	3/8-inch by 0		2,770	2,820	2,910+	5.6	.7	D78845
Mabscott										
Mabscott	Sewell	T	Run-of-mine		2,170	2,360	2,570	4.8	1.1	A12139
Do.	do.	T	do.		2,420	2,640	2,780	7.2	1.0	C1316
McAlpin										
MacAlpin	Beckley	T	do.		2,750	2,900	-	5.3	.5	A17770
MacAlpin No. 2	Pocahontas No. 4	T	1-1/2-inch lump (W)		2,380	2,510	2,690	3.7	.9	E8206
Do.	do.	T	1-1/2- by 3/4-inch (W)		2,510	2,610	2,720	6.7	.9	E8207
Do.	do.	T	3/4- by 3/8-inch (W)		2,580	2,710	2,810	9.1	.9	E8208
Do.	do.	T	3/8-inch by 0		2,590	2,690	2,870	6.4	.8	E8209
Hotcoal No. 4	Beckley	T	Run-of-mine		2,910+	-	-	8.2	.6	B97030
Madeleine										
Madeleine	Pocahontas No. 3	T	3/4-inch by 0		2,860	2,910	2,950	7.5	.7	A61940
Marfork										
Marfork	Winifrede	T	12- by 5-inch		2,570	2,780	2,910+	3.9	.6	D30827
Do.	do.	T	5- by 3-inch		2,730	2,910	2,910+	5.1	.5	D30828
Do.	do.	T	3- by 2-inch		2,700	2,840	2,910+	7.2	.5	D30829
Do.	do.	T	2-inch by 0		2,570	2,700	2,860	8.0	.5	D30830
Montcoal										
No. 5 Block	Lower Kittanning	M		5	2,910+(3)	2,910+(1)	-	9.4	.9	C30504 to C30508
					2,820 (2)	2,820 (1)	2,910+(1)			
Norvell										
Mason No. 1	Fire Creek	T	3/8-inch lump		2,430	2,620	2,780	3.6	.6	B99990
Do.	do.	T	3/8-inch by 0		2,570	2,720	2,890	4.3	.5	B99991
Oswald										
Oswald	Sewell	T	3/8-inch lump (W)		2,030	2,140	2,520	3.0	1.1	D76244
Do.	do.	T	3/8-inch by 0		2,170	2,390	2,660	6.9	1.2	D76245
Do.	do.	T	Run-of-mine		2,220	2,550	2,680	6.9	.9	F15786
Pemberton										
Pemberton No. 2	Beckley	T	do.		2,490	2,600	2,790	6.2	1.3	A61941
Piney View										
Jonancy	Fire Creek	T	7-inch lump		2,420	2,600	2,890	1.3	.6	C1413
Do.	do.	T	7- by 2-1/2-inch		2,320	2,560	2,860	1.4	.7	C1414
Do.	do.	T	2-1/2- by 1-1/4-inch		2,510	2,610	2,830	4.4	.8	C1415
Do.	do.	T	1-1/4-inch by 0		2,710	2,840	2,910+	5.5	.8	C1416
Mack No. 1	do.	T	Run-of-mine		2,850	2,910+	-	2.5	.6	C1000
Stanley	Sewell	T	do.		2,330	2,560	2,680	7.5	1.1	C3005
Price Hill										
Price Hill	do.	M		3	2,220	2,540	2,680	3.5	.9	A36739 to A36741
Do.	do.	T	1-inch by 0		2,090	2,450	2,650	6.2	1.2	A71728
Do.	do.	T	Run-of-mine		2,060	2,240	2,450	4.5	1.1	A13633
Prince (Fayette County)										
Dunedin	Fire Creek	T	5/8-inch lump		1,960	2,160	2,480	6.1	.9	D90805
Do.	do.	T	5/8-inch by 0		2,600	2,690	2,910	6.6	.7	D90806
Do.	do.	T	1-1/4-inch lump		2,210	2,450	2,660	3.5	.8	D91650
Do.	do.	T	1-1/4-inch by 0		2,700	2,840	2,910+	8.4	.6	D91651
Royal	do.	T	1-1/2-inch lump		2,530	2,680	2,780	5.0	.8	F8619
Do.	do.	T	1-1/2-inch by 0		2,600	2,730	2,910	7.8	1.0	F8620
Princewick										
Princewick	Beckley	T	Run-of-mine		2,450	2,760	2,850	4.1	.5	A18108
Raleigh										
Raleigh No. 1	do.	T	do.		2,450	2,570	2,650	4.1	.7	A12008
Raleigh No. 3	do.	T	do.		2,740	2,800	2,860	4.2	.8	A12010
Raleigh No. 6	do.	T	do.		2,520	2,680	2,740	4.3	.8	A12009
Do.	do.	T	7-inch lump		2,570	2,810	2,910+	3.0	.7	C494
Do.	do.	T	7- by 3-inch		2,380	2,540	2,790	3.2	.8	C495
Do.	do.	T	3- by 1-1/4-inch (W)		2,370	2,550	2,790	2.7	.8	C496
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,780	2,870	2,910+	3.9	.8	C497
Do.	do.	T	5/8- by 1/4-inch (W)		2,840	2,910	2,910+	3.9	.8	C498

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Raleigh County (Con.)										
Raleigh										
Raleigh No. 6	Beckley	T	1/4-inch by 0		2,640	2,770	2,910+	6.0	.9	C499
Raleigh No. 7	do.	T	Run-of-mine		2,520	2,680	2,740	4.7	.9	A12007
Do.	do.	T	3-inch lump		2,810	2,910+	-	6.3	.8	C360
Do.	do.	T	3- by 1-1/4-inch (W)		2,840	2,910+	-	5.2	.7	C361
Do.	do.	T	1-1/4-inch by 0		2,820	2,910	2,910+	7.8	.7	C362
Rhodell										
Minter No. 1	Pocahontas No. 3	T	3-inch lump		2,880	2,930+	-	7.2	.7	B67163
Do.	do.	T	3- by 1-1/4-inch (W)		2,830	2,930+	-	9.4	.8	B67164
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,870	2,910+	-	5.5	.6	B67165
Do.	do.	T	5/8-inch by 0		2,790	2,910	2,930+	6.1	.8	B67166
Rhodell No. 3	do.	T	1- by 1/2-inch		2,740	2,770+	-	7.8	.7	A51833
Do.	do.	T	1/2-inch by 0		2,790	2,830	2,880+	6.5	.8	A51832
Riley										
Piney No. 3	Sewell	T	Run-of-mine		2,330	2,510	2,680	5.6	.8	A20084
Semoco										
Semoco	do.	T	do.		2,580	2,700	2,850	7.3	1.2	B99989
Semoco No. 2	do.	T	do.		2,170	2,420	2,610	7.3	1.4	B66921
Do.	do.	T	1-1/4-inch by 0		2,370	2,600	2,870	8.8	1.1	B66923
Shady Spring										
Snuffer	Beckley	T	1-inch by 0		2,410	2,580	2,730	5.5	1.0	B67097
Skelton										
Cranberry No. 2	Sewell	T	Run-of-mine		2,030	2,390	2,530	3.8	1.0	A12138
Do.	do.	M		1	2,340	2,510	2,740	1.8	.6	B14271
Skelton	do.	T	7-inch lump		1,940	2,260	2,530	2.5	1.0	C1225
Do.	do.	T	7- by 3-inch		2,090	2,450	2,580	2.7	.7	C1226
Do.	do.	T	3- by 1-1/4-inch (W)		2,480	2,600	2,780	3.4	.6	C1227
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,310	2,620	2,750	6.2	.9	C1228
Do.	do.	T	3/4- by 3/8-inch		2,470	2,650	2,840	7.6	.9	C1229
Do.	do.	T	3/8-inch by 0		2,270	2,490	2,750	4.9	.9	C1230
Slab Fork										
Slab Fork	Pocahontas No. 4	T	Run-of-mine		2,740	2,860	2,890+	5.2	.7	B98701
Do.	Beckley	T	1-3/4- by 3/4-inch (W)		2,900	2,910+	-	4.7	.9	F10026
Do.	do.	T	3/4-inch by 0 (W)		2,780	2,910+	-	7.3	.6	F10027
Do.	Pocahontas No. 4	T	1-3/4- by 3/4-inch (W)		2,820	2,910+	-	5.8	.7	F10028
Do.	do.	T	3/4-inch by 0 (W)		2,840	2,910+	-	7.4	.7	F10029
Slab Fork No. 5	Beckley	T	Run-of-mine		2,510	2,660	2,800	4.8	.6	A19036
Sprague										
Cranberry No. 3	Sewell	T	do.		2,240	2,510	2,650	4.4	1.0	A12098
Do.	do.	M		1	2,540	2,640	2,750	2.3	.8	A90521
Sprague	do.	T	3/4-inch lump		2,360	2,520	2,620	5.6	1.3	C41763
Do.	do.	T	3/4- by 3/8-inch		2,580	2,640	2,780	7.4	1.1	C41764
Do.	do.	T	3/8-inch by 0		2,580	2,660	2,780	5.1	.9	C41765
Stanaford										
Piney No. 1	Beckley	T	Run-of-mine		2,180	2,390	2,450	8.4	1.3	A11610
Stanaford No. 1	do.	T	8-inch lump		2,340	2,450	2,730	2.1	.7	B98961
Do.	do.	T	8- by 3-inch		2,520	2,660	2,910	2.0	.6	B98962
Do.	do.	T	3- by 1-1/4-inch (W)		2,400	2,550	2,840	3.0	.6	B98963

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Do.	do.	T	1-1/4-inch by 0		2,780	2,850	2,910+	6.0	.6	B98964
Do.	do.	M		6	2,570	2,650	2,750	5.2	1.1	C51604 to C51609
Do.	do.	M		2	2,250	2,470	2,620	5.6	1.0	C51674 and C51675
Do.	do.	T	7-inch lump		2,020	2,170	2,310	5.6	1.4	D75520
Do.	do.	T	7- by 3-inch		1,940	2,180	2,600	6.3	1.1	D75521
Do.	do.	T	3- by 1-1/2-inch (W)		2,030	2,470	2,680	8.2	.8	D75522
Do.	do.	T	1-1/2- by 7/8-inch (W)		2,780	2,910+	-	8.9	.8	D75523
Do.	do.	T	7/8-inch by 0		2,730	2,860	2,910+	7.3	.9	D75524
Stanaford No. 6	Sewell	T	8-inch lump		2,030	2,170	2,520	2.7	1.3	B99253
Do.	do.	T	8- by 3-inch		2,280	2,500	2,660	2.0	.7	B99162
Do.	do.	T	3- by 1-1/4-inch (W)		2,150	2,350	2,580	2.5	.8	B99163
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,250	2,340	2,620	5.5	.8	B99164
Do.	do.	T	5/8-inch by 0		2,320	2,570	2,800	6.0	.9	B99165
Stotesbury										
Stotesbury	Beckley	T	Run-of-mine		2,680	2,850	-	5.5	.6	A26134
Stotesbury No. 6	Pocahontas No. 4	T	4-inch lump		2,780	2,850	2,910+	3.9	.6	B98917
Do.	do.	T	4- by 1-1/4-inch (W)		2,840	2,910+	-	3.5	.6	B98918
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,880	2,880+	-	5.5	.6	B98919
Do.	do.	T	5/8- by 1/4-inch (W)		2,910+	-	-	5.6	.6	B98920
Do.	do.	T	5/8-inch by 0		2,760	2,840	2,880+	6.7	.6	B98921
Sullivan										
Lillybrook No. 4	do.	T	Run-of-mine		2,460	2,600	2,700	5.3	1.0	A9750
Surveyor										
Cove Creek	Eagle	T	do.		2,540	2,710	2,840	7.9	1.1	F9322
Tamroy										
Tamroy	Sewell	T	do.		2,180	2,340	2,490	3.7	.8	A13294
Tams										
Tams	Beckley	T	7-inch lump		2,340	2,470	2,720	2.3	.5	B12562
Do.	do.	T	7- by 2-inch (W)		2,100	2,320	2,490	2.5	.6	B12563
Do.	do.	T	2- by 1-inch (W)		2,490	2,710	2,810	3.1	.5	B12564
Do.	do.	T	1- by 5/8-inch		2,750	2,780	2,870	5.2	.5	B12565
Do.	do.	T	5/8-inch by 0		2,490	2,600	2,800	5.6	.7	B12566
Tams No. 2	Pocahontas No. 4	T	3-inch lump		2,340	2,570	2,850	5.8	1.0	B99978
Do.	do.	T	3- by 1-1/4-inch (W)		2,690	2,780	2,910+	9.1	.7	B99979
Do.	do.	T	1-1/4-inch lump (W)		2,650	2,750	2,840	5.5	.8	F10297
Do.	do.	T	1-1/4- by 1/4-inch (W)		2,810	2,910+	-	5.3	.7	F10298
Do.	do.	T	1/4-inch by 0		2,590	2,730	2,830	6.1	.8	F10299
Terry										
Dunedin No. 1	Fire Creek	T	6-inch lump		2,410	2,450	2,780	2.1	.6	C4503
Do.	do.	T	6- by 2-1/2-inch		2,370	2,480	2,680	2.5	.6	C4504
Do.	do.	T	2-1/2- by 1-1/4-inch (W)		2,400	2,490	2,780	4.6	.7	C4505
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,380	2,620	2,850	7.0	.6	C4506
Do.	do.	T	5/8-inch by 0		2,700	2,760	2,910	7.4	.8	C4507
Do.	do.	M		3	2,910+(1)	-	-	6.0	.8	D18984 to D18986
					2,270 (2)	2,360 (2)	2,600 (2)			
Tommy Creek										
Tommy Creek	Pocahontas No. 3	T	Run-of-mine		2,750	2,800	2,880	6.1	.8	A48874
Whitby										
Sterling	Pocahontas No. 4	T	3/4-inch lump		2,500	2,580	2,810	6.6	.8	B99614
Do.	do.	T	3/4-inch by 0		2,780	2,870	2,910+	6.0	.9	B99615
Do.	do.	T	Run-of-mine (W)		2,750	2,820	2,910+	5.7	.9	E90075
Winding Gulf										
Winding Gulf No. 1	Beckley	M		4	2,780 (3)	2,910+(1)	-	3.8	.5	B9449 to B9452
						2,880 (3)				
Do.	do.	T	8-inch lump		2,560	2,730	2,910+	3.0	.5	B99037
Do.	do.	T	8- by 3-inch		2,730	2,840	2,910+	3.6	.6	B99038
Do.	do.	T	3- by 1-1/4-inch (W)		2,690	2,780	2,910+	4.5	.5	B99039
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,650	2,760	2,910+	6.7	.5	B99040
Do.	do.	T	5/8-inch by 0		2,850	2,910	2,910+	5.6	.5	B99041
Winding Gulf No. 2	do.	T	8-inch lump		2,500	2,710	2,890	3.0	.6	B99129
Do.	do.	T	8- by 2-1/2-inch		2,810	2,900	2,910+	3.7	.5	B99130

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3 - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1/]	Size of coal[2/]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F	Fusibility of Ash: Softening temperature, °F	Fusibility of Ash: Fluid temperature, °F	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Raleigh County (Con.)										
Winding Gulf										
Winding Gulf No. 2	Beckley	T	2-1/2- by 1-1/4-inch (W)		2,650	2,780	2,910+	3.8	.6	B99131
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,910+	-	-	6.1	.6	B99132
Do.	do.	T	5/8-inch by 0		2,910+	-	-	6.4	.7	B99133
Wright										
Wright No. 1	Fire Creek	T	2-1/2-inch by 0		2,400	2,640	2,760+	4.8	.7	A51892
Randolph County										
Bemis										
Big Sewell No. 2	Sewell	T	Run-of-mine		2,790	2,910+	-	9.2	.6	B87806
Beverly										
Tidd	do.	M		3	2,460	2,570	2,730	7.8	1.2	B52534 to B52536
Cassity										
Cassity	do.	T	7- by 3-inch		2,390	2,440	2,720	5.2	.6	B58698
Do.	do.	T	3- by 1-1/4-inch		2,500	2,660	2,880	6.4	.5	B58699
Do.	do.	T	3-1/2-inch by 0		2,500	2,660	2,880	7.2	.6	B58700
Do.	Middle Kittanning	T	Run-of-mine		2,360	2,490	2,590	11.7	2.8	D44782
Kaufman	Lower Kittanning	T	do.		2,570	2,780	2,890	15.9	2.3	D73072
Cheat Bridge										
Linan	Sewell	T	do.		2,910+	-	-	7.7	.7	D72279
Coalton										
Silvester	Upper Kittanning	T	do.		2,770	2,910+	-	13.9	1.3	B88137
Elkins										
Big Knob No. 1	Sewell	T	do.		2,750	2,820	2,910+	6.7	.8	D83612
Harding										
Antolini	Lower Kittanning	T	do.		2,910+	-	-	12.1	1.0	B87807
Harding No. 1	Middle Kittanning	T	do.		2,910+	-	-	10.3	.8	D96115
Harding No. 3	Kittanning	T	do.		2,760	2,820	2,910	12.4	1.3	A41836
Lighter	do.	T	do.		2,910+	-	-	10.5	.9	D45419
Ro-An	do.	T	4- by 1-1/2-inch		2,570	2,670	2,790	11.7	1.7	E25049
Do.	do.	T	1-1/2-inch by 0		2,650	2,760	2,850	11.4	1.8	E25050
Mabie										
Brady	Lower Kittanning	T	Run-of-mine		-	2,990+	-	9.7	1.1	A62069
Hart No. 1	Sewell	T	do.		2,910+	-	-	4.5	.5	D90807
Williams No. 1	Lower Kittanning	T	do.		2,910+	-	-	13.5	1.2	D72280
Monterville										
Golden Ridge No. 6	Sewell	T	5-inch lump		2,520	2,670	2,840	2.6	.6	B87801
Do.	do.	T	5- by 3-inch		2,670	2,820	2,910+	3.1	.6	B87802
Do.	do.	T	3- by 2-inch		2,790	2,910+	-	3.9	.5	B87803
Do.	do.	T	2- by 1-inch		2,860	2,910+	-	5.9	.7	B87804
Do.	do.	T	1-inch by 0		2,910+	-	-	8.6	.7	B87805
Norton										
Norton	Lower Kittanning	T	4-inch lump		2,570	2,680	2,910+	11.4	1.7	D48763
Do.	do.	T	4- by 2-1/2-inch		2,730	2,870	2,910+	13.3	1.7	D48764
Do.	do.	T	2-1/2-inch by 0		2,760	2,840	2,910+	12.5	1.8	D48765
Do.	Upper Kittanning	T	Run-of-mine		2,600	2,670	2,780	18.3	2.3	D43297
Do.	do.	T	4-inch lump		2,660	2,730	2,910+	10.2	1.6	E25194

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Do.	do.	T	4- by 2-1/2-inch		2,720	2,790	2,910+	12.4	1.4	E25195
Do.	do.	T	2-1/2- by 1-inch		2,690	2,760	2,910+	15.3	1.8	E25196
Do.	do.	T	1-inch by 0		2,510	2,630	2,840	11.6	1.9	E25197
Orchard	Lower Kittanning	T	2-inch lump		2,820	2,890	2,910+	9.4	1.1	D83857
Do.	do.	T	2-inch by 0		2,900	2,910+	-	10.5	1.0	D83858
Pickens										
Pickens Peerless	No. 2 Gas	T	do.		2,210	2,420	2,650	4.9	.9	D41281
Taylor County										
Flemington										
Ashcraft No. 3	Pittsburgh	T	6- by 1-1/4-inch		1,970	2,360	2,520	8.6	2.6	D71432
Do.	do.	T	1-1/4-inch by 0		1,940	2,360	2,490	9.2	2.7	D71433
Do.	do.	T	Run-of-mine		2,050	2,200	2,550	7.1	1.5	F14657
Barry	do.	T	3/4-inch lump		2,150	2,200	2,470	7.2	1.6	B85406
Do.	do.	T	3/4-inch by 0		2,090	2,190	2,380	7.1	1.8	B85407
Blue Ridge No. 2	do.	T	Run-of-mine		1,920	2,180	2,450	12.6	3.2	F15942
Delmar No. 1	do.	T	do.		2,000	2,120	2,390	10.8	3.9	B66184
Do.	do.	T	3- by 1-inch		1,970	2,050	2,420	8.8	2.5	D41283
Do.	do.	T	1-inch by 0		2,050	2,180	2,470	9.4	2.7	D41284
Delmar No. 3	do.	T	Run-of-mine		1,940	2,050	2,430	8.9	3.0	E41757
Do.	Redstone	T	do.		2,000	2,120	2,450	9.2	2.6	E41756
Dorset	Pittsburgh	T	do.		1,940	2,210	2,470	10.7	3.1	F15943
Halfway	do.	T	do.		1,940	2,100	2,470	10.3	4.4	D45716
Johnson No. 5	do.	T	do.		2,080	2,250	2,510	8.2	3.1	D42508
Kerns	do.	T	do.		1,990	2,080	2,350	8.0	2.7	E42188
Grafton										
Warder	do.	T	do.		1,970	2,080	2,570	8.3	3.6	D45180
Rosemont										
Clare	do.	T	do.		1,970	2,090	2,430	8.7	2.4	E68726
Delmar No. 4	do.	T	do.		1,970	2,220	2,450	7.8	2.8	B22090
Do.	do.	T	6- by 2-inch		1,970	2,220	2,450	7.4	2.6	B22091
Do.	do.	T	3/4-inch by 0		1,950	2,200	2,460	10.1	2.8	B66183
Rosemont	do.	T	Run-of-mine		1,950	2,300	2,470	9.9	2.4	B85405
Webster										
Webster	do.	T	do.		2,470	2,620	2,840	7.9	1.5	D59016
Wendel										
Wendel	do.	T	2-inch lump		2,430	2,550	2,730	6.2	1.1	B66178
Do.	do.	T	2- by 1-1/4-inch		2,380	2,480	2,730	6.6	1.2	B66179
Do.	do.	T	1-1/4- by 5/8-inch		2,120	2,400	2,530	7.0	1.5	B66180
Do.	do.	T	5/8-inch by 0		2,020	2,360	2,510	7.3	1.7	B66181
Wendel No. 2	do.	T	Run-of-mine		1,970	2,050	2,420	8.0	2.1	D41282
Tucker County										
Albert										
Douglas	Lower Kittanning	T	do.		2,550	2,840	2,960	5.2	.9	A69332
Douglas No. 2	Upper Freeport	T	do.		2,520	2,680	2,800	7.5	1.2	D34029
Benbush										
Davis No. 38	Kittanning	T	3/4-inch by 0		2,800	2,910	-	8.4	.9	B5643
Do.	do.	T	Run-of-mine		2,820	2,920	-	7.1	.8	B5644
Tucker No. 2	Upper Freeport	T	do.		2,520	2,620	2,680	9.2	1.2	D33046
Coketon										
Davis No. 23	Bakerstown	M		6	2,190	2,360	2,630	5.8	1.4	B49015 to B49020
Davis No. 37	Lower Kittanning	T	Run-of-mine		2,530	2,610	2,770	7.3	1.3	A51958
Do.	Kittanning	T	3/4-inch by 0		2,260	2,450	2,650	8.0	1.6	B5641
Pierce										
Davis No. 40	do.	T	2-inch by 0		2,680	2,740	2,870	8.9	1.2	B5645
Do.	do.	T	Run-of-mine		2,550	2,650	2,770	9.1	1.5	B5646
Do.	Upper Freeport	T	2-1/2-inch by 0		2,620	2,680	2,780	11.6	1.3	D32894
Thomas										
Davis No. 36	do.	T	3/4-inch lump		2,150	2,340	2,550	8.5	1.8	E26243

1 M mine sample; T tipple sample 2 W washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Tucker County (Con.)										
Thomas										
Davis No. 36	Upper Freeport	T	3/4-inch by 0		2,210	2,610	2,690	8.9	1.5	E26244
Pendleton Run No. 1	Bakerstown	T	Run-of-mine		2,680	2,860	2,910+	9.1	.7	D33658
Pierce No. 40	Upper Freeport	T	2-inch by 0		2,690	2,800	2,910+	8.8	1.1	B58211
Tucker No. 1	Bakerstown	T	Run-of-mine		2,420	2,470	2,680	12.8	.7	D33045
Upshur County										
Adrian										
Adrian	Upper Freeport	T	6-inch lump		2,290	2,360	2,510	5.5	1.1	B58552
Do.	do.	T	6- by 1-1/4-inch		2,400	2,450	2,600	6.8	1.2	B58553
Do.	do.	T	1-1/4-inch by 0		2,300	2,340	2,570	13.8	1.7	B58554
Eagle No. 3	do.	T	Run-of-mine		2,210	2,320	2,500	7.4	1.5	E24485
Ella	do.	T	do.		2,440	2,540	2,680	11.6	1.5	B87808
Do.	do.	T	do.		2,080	2,180	2,520	6.4	1.4	D45069
Buckhannon										
Capitol No. 1	Redstone	T	do.		2,090	2,150	2,420	8.2	2.7	E25820
Julia No. 2	do.	T	2-inch lump		2,030	2,190	2,420	8.3	2.2	E60939
Do.	do.	T	2-inch by 0		2,100	2,160	2,450	8.0	2.1	E60940
Koon	do.	T	Run-of-mine		2,120	2,170	2,320	8.8	2.9	D42020
Mary-Ann	do.	T	do.		2,000	2,050	2,390	6.0	1.8	D84613
Phillips	do.	T	2-inch lump		1,940	2,260	2,470	8.6	3.6	D71925
Do.	do.	T	2- by 1-1/4-inch		1,940	2,180	2,470	8.0	3.4	D71926
Do.	do.	T	1-1/4- by 3/4-inch		1,940	2,210	2,470	6.7	2.7	D71927
Do.	do.	T	3/4-inch by 0		1,940	2,260	2,470	6.8	2.6	D71928
Phillips No. 2	Pittsburgh	T	Run-of-mine		2,030	2,130	2,340	9.2	4.2	E34777
Phillips No. 3	Redstone	T	do.		2,000	2,090	2,310	7.7	2.8	E34778
Ralph	do.	T	2- by 1-1/4-inch		2,000	2,050	2,360	8.6	2.5	D40247
Do.	do.	T	1-1/4- by 3/4-inch		2,000	2,080	2,420	7.3	2.4	D40248
Do.	do.	T	3/4-inch by 0		2,000	2,050	2,340	8.6	2.4	D40249
Scott No. 4	do.	T	2-1/2- by 3/4-inch		2,020	2,070	2,330	8.1	2.4	E24481
Do.	do.	T	3/4-inch by 0		2,020	2,070	2,310	10.5	2.3	E24482
Hodgeville										
Kano	do.	T	Run-of-mine		2,210	2,280	2,480	6.1	1.3	B58701
Do.	do.	T	2- by 1-1/4-inch		2,050	2,130	2,440	7.3	2.5	E25821
Do.	do.	T	1-1/4- by 3/4-inch		2,070	2,140	2,400	7.5	2.5	E25822
Do.	do.	T	3/4-inch by 0		2,000	2,090	2,260	8.7	2.6	E25823
Lona No. 1	do.	T	Run-of-mine		2,080	2,180	2,570	9.4	1.9	D40989
Queen	do.	T	do.		2,160	2,230	2,520	7.6	2.0	B66480
Rowan No. 3	do.	T	do.		2,100	2,150	2,360	9.7	2.1	C95813
Wayne County										
East Lynn										
Northland	Lower Kittanning	M		3	2,500	2,630	2,720	6.1	1.5	D4687 to D4689

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Webster County										
Barton										
Bergoo No. 2	Sewell	T	4-inch lump		2,890+	-	-	4.9	.5	D73359
Do.	do.	T	4- by 2-1/4-inch		2,910+	-	-	7.3	.6	D73360
Do.	do.	T	2-1/4- by 1-1/4-inch		2,900+	-	-	8.7	.5	D73361
Do.	do.	T	1-1/4- by 7/8-inch		2,910+	-	-	7.4	.5	D73362
Do.	do.	T	7/8- by 3/8-inch		2,910+	-	-	7.3	.6	D73363
Do.	do.	T	3/8-inch by 0		2,640	2,910+	-	7.5	.6	D73364
Bergoo										
Bergoo No. 3	do.	T	Run-of-mine		2,840	2,910+	-	7.5	.7	B89593
Do.	do.	T	4-inch lump		2,770	2,840	2,910+	4.3	.7	C30896
Do.	do.	T	4- by 2-1/4-inch		2,870	2,910+	-	5.7	.7	C30897
Do.	do.	T	2-1/4- by 1-1/4-inch		2,810	2,860	2,910+	6.8	.7	C30898
Do.	do.	T	1-1/4-inch by 0		2,760	2,810	2,910+	7.1	.7	C30899
Bergoo No. 4	do.	T	6-inch lump		2,510	2,620	2,810	2.9	.6	D73068
Do.	do.	T	6- by 4-inch		2,450	2,570	2,850	2.2	.5	D73069
Do.	do.	T	4- by 2-1/4-inch		2,860	2,910+	-	4.4	.5	D73070
Do.	do.	T	2-1/4-inch by 0		2,910+	-	-	7.8	.5	D73071
Bergoo No. 5	do.	T	5-inch lump		2,690	2,740	2,790	3.2	.7	C77254
Do.	do.	T	5- by 2-1/4-inch		2,680	2,820	2,880	3.8	.6	C77255
Do.	do.	T	2-1/4-inch by 0		2,880	2,910+	-	7.0	.6	C77256
Bolair										
Bolair	Fire Creek	T	5- by 2-1/4-inch (W)		2,620	2,730	2,780	9.6	.8	D73194
Do.	do.	T	2-1/4-inch by 0 (W)		2,780	2,890	2,910+	9.8	.8	D73195
Bolair No. 1	do.	T	5- by 2-1/4-inch		2,840	2,890	2,910+	19.0	.6	C77259
Do.	do.	T	2-1/4-inch by 0		2,880	2,910+	-	15.1	.7	C77260
Do.	do.	T	Run-of-mine		2,910+	-	-	8.1	.6	F20492
Cowen										
Williams River	Sewell	M		6	2,620	2,690	2,910+(2) 2,800 (4)	4.8	.8	D39020 to D39025
Jerryville										
Bergoo No. 6	do.	T	Run-of-mine		2,910+	-	-	7.0	.6	C77577
Do.	do.	M		5	2,910+(4) 2,890 (1)	- 2,910+(1)	-	6.1	.6	D39027 to D39031
Gauley River No. 2	do.	T	Run-of-mine		2,820	2,880	2,910+	7.6	.6	B90387
Do.	do.	T	2-inch lump		2,570	2,680	2,860	9.6	.7	B90388
Do.	do.	T	2- by 1-1/4-inch		2,690	2,840	2,910+	5.2	.6	B90389
Do.	do.	T	1-1/4- by 3/4-inch		2,730	2,840	2,910+	5.8	.6	B90390
Do.	do.	T	3/4-inch by 0		2,540	2,790	2,910+	5.5	.6	B90391
Turkey Creek No. 1	do.	T	Run-of-mine		2,840	2,890	2,910+	7.9	1.0	D95209
Webster Springs										
Britton	do.	T	2-1/2-inch lump		2,910+	-	-	4.4	.6	B89677
Do.	do.	T	2-1/2-inch by 0		2,910+	-	-	7.1	.6	B89678
Golden Lee	do.	T	1-1/4- by 3/4-inch		2,910+	-	-	7.4	.6	E960
Do.	do.	T	2-inch by 0		2,870	2,910+	-	6.5	.8	E959
Wyoming County										
Alpoca										
Alpha	Beckley	T	Run-of-mine		2,340	2,570	2,630	6.0	1.1	A18815
Black Eagle										
Black Eagle	Pocahontas No. 3	T	do.		2,860	2,890	2,910+	7.8	.7	B12602
Black Eagle No. 2	Pocahontas No. 6	T	8- by 1-1/2-inch		2,870	2,910+	-	6.8	.8	C42490
Do.	do.	T	1-1/2-inch by 0		2,850	2,890	2,910+	8.0	.8	C42491
Bud										
Thermo Pocahontas	Beckley	T	Run-of-mine		2,490	2,640	2,730	8.2	1.4	A39685
Coal Mountain										
Coal Mountain No. 9	Powellton	T	do.		2,760	2,870	2,910+	4.6	.6	D78995
Coal Mountain No. 12	Winifrede	T	6- by 3-inch (W)		2,800	2,890	2,910+	5.0	.7	D78991
Do.	do.	T	3- by 1-1/4-inch (W)		2,850	2,910+	-	6.3	.6	D78992

1 M mine sample; T tipple sample. 2 W washed

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Wyoming County (Con.)										
Coal Mountain										
Coal Mountain No. 12	Winifreda	T	1-1/4- by 1/4-inch (W)		2,880	2,910+	-	6.3	.7	D78993
Do.	do.	T	1/4-inch by 0		2,570	2,690	2,850	8.6	.8	D78994
Corinne										
Macie	Pocahontas No. 3	T	Run-of-mine		2,800	2,930	2,940+	7.1	.6	A71558
Miller No. 1	do.	T	do.		2,770	2,840	2,910	8.4	.6	A39592
Miller No. 2	do.	M		4	2,640	2,790	-	5.0	.8	94809 to 94812
Do.	do.	T	Run-of-mine		2,670	2,780	2,880	9.7	.7	A39431
Miller Pocahontas No. 1	do.	T	do.		2,790	2,850	2,870	8.0	.7	A18716
Miller Pocahontas No. 2	do.	T	do.		2,500	2,670	2,760	8.5	.7	A18715
Covel										
Covel	do.	T	do.		2,700	2,740	2,800	7.5	.6	A13605
Do.	do.	T	1-inch lump		2,780	2,890	2,910+	8.6	.6	B12535
Do.	do.	T	1- by 1/4-inch		2,780	2,870	2,910+	7.9	.6	B12534
Do.	do.	T	1/4-inch by 0		2,750	2,800	2,910+	6.3	.6	B12537
Devils Fork										
Devils Fork	do.	T	Run-of-mine		2,720	2,790	2,840	7.9	.7	A39611
Do.	do.	T	2- by 1-inch		2,740	2,820	2,890	11.4	.7	A62027
Do.	do.	T	1-inch by 0		2,830	2,850	2,890	6.7	.7	A71593
Glen Morrison										
Faith	Sewell	T	Run-of-mine		2,090	2,260	2,430	5.7	1.5	A13937
Morrison	do.	M		3	2,080	2,290	2,430	4.3	1.4	A5787 to A5789
Do.	do.	T	Run-of-mine		2,190	2,450	2,630	5.2	1.6	A39350
Glen Rogers										
Glen Rogers	Beckley	T	do.		1,990	2,340	2,450	5.0	.9	95109
Glen Rogers No. 2	do.	M		4	2,330	2,560	-	5.5	.8	95110 to 95113
Do.	do.	M		6	2,910+(3) 2,700 (3)	2,910+(1) 2,660 (2)	2,910+(1) 2,620 (1)	4.8	.8	D47197 to D47202
Do.	do.	T	8-1/2-inch lump		2,100	2,470	2,590	3.6	.8	F15787
Do.	do.	T	8-1/2- by 3-inch (W)		2,180	2,440	2,630	4.3	.7	F15788
Do.	do.	T	3- by 1-1/2-inch (W)		2,470	2,620	2,860	6.4	.7	F15789
Do.	do.	T	1-1/2- by 7/8-inch (W)		2,870	2,910+	-	7.1	.6	F15790
Do.	do.	T	7/8- by 5/16-inch (W)		2,870	2,910+	-	7.7	.6	F15791
Do.	do.	T	5/16-inch by 0		2,620	2,770	2,880	10.4	.9	F15792
Glover										
Marianna No. 2	Sewell	T	8-1/2-inch lump		2,620	2,730	2,850	2.9	.6	B96190
Do.	do.	T	8-1/2- by 3-inch (W)		2,480	2,680	2,820	3.1	.5	B96191
Do.	do.	T	3- by 1-1/4-inch (W)		2,570	2,710	2,850	3.9	.5	B96192
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,680	2,850	2,910+	4.3	.7	B96193
Do.	do.	T	5/8-inch by 0		2,520	2,710	2,850	5.8	.5	B96194
Guyan										
Coal Mountain	Powellton	T	1-1/2-inch lump		2,570	2,710	2,910+	3.0	.6	B97797
Do.	do.	T	1-1/2-inch by 0		2,560	2,710	2,910+	3.0	.6	B97798
Do.	do.	M		3	2,610	2,740	2,880	2.7	.7	B97864 to B97866
Helen (Raleigh County)										
Stotesbury No. 11	Pocahontas No. 4	T	3-inch lump		2,620	2,690	2,800	5.7	.9	B98087
Do.	do.	T	3- by 5/8-inch (W)		2,550	2,620	2,780	7.3	.7	B98088

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Do.	do.	T	5/8-inch by 0		2,720	2,790	2,910+	7.6	.8	B98089
Herndon										
Flat Top	Pocahontas No. 3	T	Run-of-mine		2,560	2,680	2,790	6.2	.5	94742
Do.	do.	M		4	2,680	2,810	2,870	6.1	.5	94744 to 94747
Lamar No. 2	do.	T	8-inch lump		2,520	2,630	2,760	3.4	.5	E5024
Do.	do.	T	8- by 4-inch		2,590	2,780	2,890	4.4	.6	E5025
Do.	do.	T	4- by 1-3/4-inch (W)		2,820	2,910+	-	6.2	.4	E5026
Do.	do.	T	1-3/4- by 3/4-inch (W)		2,770	2,870	2,910+	7.7	.4	E5027
Do.	do.	T	3/4- by 3/8-inch (W)		2,870	2,910+	-	7.9	.4	E5028
Do.	do.	T	3/8-inch by 0		2,870	2,910+	-	6.5	.4	E5029
Itmann										
Itmann	do.	M		4	2,540	2,710	2,780	6.6	.9	94694 to 94697
Do.	do.	M		4	2,200	2,370	2,430	6.1	1.1	94923 to 94926
Do.	do.	T	7- by 3-1/2-inch (W)		2,550	2,650	2,790	7.5	.7	E42450
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,440	2,630	2,730	8.0	.7	E42451
Do.	do.	T	1-3/4- by 1-inch (W)		2,660	2,730	2,790	8.2	.6	E42452
Do.	do.	T	1- by 3/8-inch (W)		2,660	2,740	2,820	6.6	.7	E42453
Do.	do.	T	3/8-inch by 0		2,590	2,670	2,780	6.5	.7	E42454
Kopperston										
Kopperston No. 1	Eagle	T	5- by 1-1/4-inch (W)		2,910+	-	-	5.0	.6	D91641
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,880	2,910+	-	4.7	.6	D91642
Do.	do.	T	3/8-inch by 0		2,570	2,700	2,840	5.6	.6	D91643
Do.	do.	T	Run-of-mine (W)		2,780	2,910	2,910+	5.9	.7	F22635
Kopperston No. 2	No. 2 Gas	T	5- by 1-1/4-inch (W)		2,910+	-	-	4.7	.7	D91638
Do.	do.	T	1-1/4- by 3/8-inch (W)		2,780	2,910	2,910+	5.0	.8	D91639
Do.	do.	T	3/8-inch by 0		2,570	2,700	2,840	7.5	1.0	D91640
Do.	do.	T	Run-of-mine (W)		2,620	2,770	2,890	6.0	1.0	F22636
Lynco										
F & S No. 1	do.	T	Run-of-mine		2,660	2,770	2,830	3.1	.6	D25232
Skyland	do.	T	do.		2,730	2,780	2,870	4.2	.6	D25453
Maben										
West Gulf No. 1	Beckley	T	4- by 2-inch (W)		2,330	2,390	2,660	4.1	.7	E90925
Do.	do.	T	2- by 3/4-inch (W)		2,780	2,860	2,910+	4.0	.5	E90926
Do.	do.	T	3/4-inch by 0 (W)		2,750	2,840	2,910+	5.6	.5	E90927
Marianna										
Marianna No. 1	Sewell	T	10-inch lump		2,510	2,660	2,820	3.4	.5	E30496
Do.	do.	T	10- by 3-1/2-inch		2,530	2,610	2,770	2.9	.4	E30497
Do.	do.	T	3-1/2- by 1-3/4-inch (W)		2,490	2,570	2,720	2.7	.4	E30498
Do.	do.	T	1-3/4- by 5/8-inch (W)		2,490	2,610	2,770	2.8	.4	E30499
Do.	do.	T	5/8-inch by 0		2,490	2,680	2,840	4.8	.4	E30500
Micajah										
Micajah	Pocahontas No. 3	T	Run-of-mine		2,680	2,760	2,790	10.1	.5	A24321
Montecarlo										
Monticello	Beckley	T	do.		2,240	2,510	-	9.3	1.7	94686
Do.	do.	M		5	2,270	2,500	2,590	5.7	1.3	94699 to 94703
Mullens										
Black Eagle	Pocahontas No. 3	T	3-inch lump		2,910+	-	-	6.9	.9	B66695
Do.	do.	T	3- by 1-1/4-inch		2,910+	-	-	9.7	.9	B66696
Do.	do.	T	1-1/4- by 3/4-inch		2,830	2,910+	-	10.6	.7	B66697
Do.	do.	T	3/4-inch by 0		2,830	2,910+	-	7.3	.8	B66698
Do.	Pocahontas No. 6	T	Run-of-mine		2,780	2,910+	-	7.0	.6	F21147
Meade Pocahontas	Pocahontas No. 3	T	do.		2,850	2,910+	-	10.9	.8	B96456
Mullens	do.	T	8- by 1-1/2-inch		2,690	2,760	2,870	10.6	1.1	C42667
Do.	do.	T	1-1/2-inch by 0		2,900	2,910+	-	7.8	.8	C42668
Myrtle	Pocahontas No. 6	T	Run-of-mine		2,620	2,710	2,850	7.6	.6	B96792
Nuriva										
Hindsley	do.	T	do.		2,750	2,800	2,870	4.5	.8	A81137
Oceana										
Huff Mountain	No. 2 Gas	T	do.		2,720	2,850	2,910+	4.6	.7	E82719
Lynco No. 2	do.	T	2-inch lump		2,770	2,910	2,910+	5.1	.6	B96273
Do.	do.	T	2-inch by 0		2,750	2,870	2,910+	4.8	.6	B96274

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WEST VIRGINIA (Con.)										
Wyoming County (Con.)										
Otsego										
Brule	Fire Creek	T	5-inch lump		2,210	2,380	2,570	5.5	1.2	B96450
Do.	do.	T	5- by 3-inch		2,250	2,470	2,610	4.5	1.0	B96451
Do.	do.	T	3- by 1-1/4-inch (W)		2,450	2,530	2,730	6.4	.9	B96452
Do.	do.	T	1-1/4- by 3/4-inch (W)		2,430	2,570	2,760	5.8	.9	B96453
Do.	do.	T	3/4- by 3/8-inch (W)		2,370	2,490	2,750	6.5	.9	B96454
Do.	do.	T	3/8-inch by 0		2,420	2,620	2,750	6.3	1.1	B96455
Otsego	Pocahontas No. 3	M		3	2,740	2,840	2,900	3.6	.7	95874 to 95876
Sabine	Beckley	M		3	2,170	2,480	2,610	3.8	.9	95870 to 95872
Do.	Sewell	T	7-inch lump		2,190	2,340	2,430	7.0	4.3	D91645
Do.	do.	T	7- by 3-inch		2,050	2,260	2,520	4.0	1.4	D91646
Do.	do.	T	3- by 1-1/2-inch (W)		2,050	2,190	2,430	7.4	1.8	D91647
Do.	do.	T	1-1/2- by 1-inch (W)		2,050	2,190	2,480	7.9	1.4	D91648
Do.	do.	T	1-inch by 0		2,510	2,630	2,800	5.9	.8	D91649
Pineville										
Ennes	Beckley	T	Run-of-mine		2,010	2,100	2,350	5.7	2.3	B95862
Taylor	Sewell	T	do.		2,570	2,680	2,730	6.0	1.0	D52303
Rhodell (Raleigh County)										
Minter No. 1	Pocahontas No. 3	T	7- by 3-inch		2,850	2,910+	-	9.0	.8	B97026
Do.	do.	T	3- by 1-1/4-inch (W)		2,840	2,910+	-	7.9	.7	B97027
Do.	do.	T	1-1/4- by 5/8-inch (W)		2,910+	-	-	7.6	.6	B97028
Do.	do.	T	5/8-inch by 0		2,840	2,910+	-	7.4	.7	B97029
Stephenson										
Buckeye No. 3	do.	M		4	2,780	2,920+(1) 2,850 (3)	- 2,920+(3)	8.2	.7	B31633 to B31636
Do.	do.	T	3- by 1-3/4-inch (W)		2,820	2,910+	-	9.4	.5	E90379
Do.	do.	T	1-3/4- by 7/8-inch (W)		2,800	2,910+	-	8.8	.5	E90380
Do.	do.	T	7/8- by 3/8-inch (W)		2,820	2,900	2,910+	8.3	.5	E90381
Do.	do.	T	3/8-inch by 0 (W)		2,840	2,910+	-	6.6	.6	E90382
Toler Spur										
B. A. Gardetto	No. 2 Gas	T	Run-of-mine		2,680	2,780	2,840	5.2	.7	D25452
Tralee										
Barkers Creek	Pocahontas No. 3	T	do.		2,530	2,620	2,690	6.9	.6	A11287
Deerfield	do.	T	8-inch lump		2,340	2,390	2,520	5.9	.7	D80860
Do.	do.	T	8- by 4-inch		2,150	2,240	2,370	7.5	1.0	D80861
Do.	do.	T	4- by 1-3/4-inch (W)		2,260	2,310	2,440	7.6	.7	D80862
Do.	do.	T	1-3/4- by 3/4-inch (W)		2,310	2,420	2,590	7.1	.7	D80863
Do.	do.	T	3/4- by 3/8-inch (W)		2,340	2,510	2,660	6.8	.8	D80864
Do.	do.	T	3/8-inch by 0		2,420	2,460	2,570	6.5	.7	D80865
Harty No. 2	do.	T	Run-of-mine		2,630	2,800	2,860	6.7	.6	A11286
Wyco										
Bianchi No. 4	Beckley	T	do.		2,890	2,910+	-	4.6	.6	D24397
Wyco	Pocahontas No. 3	M		6	2,360 (3)	2,780+(3) 2,630 (3)	-	4.1	.8	97281 to 97286
Do.	do.	T	3-1/2- by 1-1/4-inch (W)		2,910+	-	-	11.4	.7	B97199
Do.	do.	T	1-1/4- by 11/16-inch (W)		2,910+	-	-	9.3	.6	B97200
Do.	do.	T	11/16- by 1/8-inch (W)		2,910+	-	-	7.9	.6	B97201

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Do.	do.	T	1/8-inch by 0		2,890	2,910+	-	6.9	.7	B97202
Wyoming										
Red Jacket Jr. No. 2	Sewell	T	6-inch lump		2,340	2,550	2,820	2.7	.5	B12643
Do.	do.	T	6- by 2-1/2-inch		2,130	2,430	2,590	2.7	.6	B12644
Do.	do.	T	2-1/2- by 1-1/4-inch		2,160	2,500	2,650	3.9	.6	B12645
Do.	do.	T	1-1/4- by 1/2-inch		2,500	2,650	2,800	6.4	.7	B12646
Do.	do.	T	1/2-inch by 0		2,310	2,500	2,710	4.3	.6	B12647
Wyoming	do.	M		3	2,460	2,620	2,800	3.2	.6	B29735 to B29737
Do.	do.	T	8-1/2-inch lump		2,310	2,510	2,610	2.8	.4	E33949
Do.	do.	T	8-1/2- by 3-inch		2,330	2,510	2,690	2.4	.4	E33950
Do.	do.	T	3- by 1-1/2-inch (W)		2,420	2,540	2,620	2.9	.4	E33951
Do.	do.	T	1-1/2- by 5/8-inch (W)		2,420	2,510	2,710	4.0	.6	E33952
Do.	do.	T	5/8-inch by 0		2,470	2,540	2,680	4.6	.5	E33953

WYOMING

Albany County										
Rock River										
Rock River	-	M		1	2,450	2,510	2,570	16.6	.7	93385
J. F. White Prospect	-	M		1	2,200	2,280	2,450	10.1	1.7	93386
Big Horn County										
Manderson										
Flagstaff	-	M		1	2,090	2,180	2,260	13.4	2.5	A3448
Campbell County										
Gillette										
Campbell	Felix	M		1	2,270	2,320	2,340	9.8	.9	A2642
Ditto	-	M		1	2,090	2,180	2,200	7.2	.4	87553
Eveland	Roland	M		1	2,270	2,320	2,340	7.5	.7	A2643
Hensley	do.	M		1	2,110	2,130	2,150	13.3	2.0	A2641
Peerless	do.	M		6	2,170	2,220	2,250	8.4	.7	A2635 to A2639, and A2647
Wyodak	Roland-Smith	M		1	2,250	2,360	2,430	7.9	.8	B56052
Do.	do.	T	10-inch lump		2,180	2,290	2,330	8.0	.7	D97768
Do.	do.	T	10- by 1-1/2-inch		2,090	2,110	2,130	9.3	.7	D97769
Do.	do.	T	1-1/2-inch by 0		2,180	2,250	2,330	12.8	.9	D97770
Hanna										
Carbon	Johnson	T	6-inch lump		2,120	2,180	2,490	7.4	.5	B78217
Do.	do.	T	6- by 1-5/8-inch		2,150	2,210	2,650	9.4	.4	B78218
Do.	do.	T	1-5/8- by 1/2-inch		2,240	2,290	2,580	7.6	.5	B78219
Do.	do.	T	1/2-inch by 0		2,280	2,340	2,650	6.6	.6	B78220
Elk Mountain	do.	T	6-inch lump		2,420	2,470	2,680	7.4	.6	B78212
Do.	do.	T	6- by 1-5/8-inch		2,160	2,200	2,520	8.9	.5	B78213
Do.	do.	T	1-5/8- by 1-1/4-inch		2,290	2,340	2,520	9.9	.6	B78214
Do.	do.	T	1-1/4- by 1/2-inch		2,310	2,360	2,750	8.9	.6	B78215
Do.	do.	T	1/2-inch by 0		2,270	2,300	2,680	9.5	.6	B78216
Gary	Finch	T	8- by 3-inch		2,260	2,360	2,420	7.8	.9	D53802
Do.	do.	T	3- by 1-inch		2,260	2,360	2,420	10.9	.9	D53803
Do.	do.	T	1- by 3/16-inch		2,310	2,380	2,420	13.1	.9	D53804
Do.	do.	T	3/16-inch by 0		2,150	2,310	2,420	10.7	1.0	D53805
Hanna No. 4	Hanna No. 2	M		5	2,300	2,350	2,410	7.3	.6	A62405 to A62409
Hanna No. 4-A	No. 1	T	6-inch lump		2,430	2,510	2,560	4.1	.3	D67737
Do.	do.	T	6- by 3-inch		2,440	2,520	2,570	5.0	.4	D67738
Do.	do.	T	3- by 1-inch		2,090	2,170	2,200	6.2	.4	D67739
Do.	do.	T	1-inch by 0		2,100	2,180	2,250	7.9	.5	D67740
Do.	No. 2	T	6-inch lump		2,490	2,540	2,570	5.4	.4	D67717
Do.	do.	T	6- by 3-inch		2,520	2,540	2,570	5.4	.2	D67718
Do.	do.	T	3- by 1-inch		2,180	2,210	2,230	6.7	.3	D67719

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WYOMING (Con.)										
Campbell County (Con.)										
Hanna										
Hanna No. 4-A	No. 2	T	1-inch by 0		2,150	2,210	2,230	8.2	.4	D67720
Johnson	-	M		1	2,170	2,280	-	9.3	.6	93486
McMillen	-	M		1	2,130	2,240	2,340	4.6	1.0	93488
Monolith	-	T	3-inch lump		2,420	2,450	2,670	4.3	.4	B78688
Do.	-	T	Run-of-mine		2,180	2,220	2,430	5.7	.4	B78689
Do.	-	T	3- by 1-inch		2,190	2,240	2,370	4.8	.4	B78690
Carbon County										
Elk Mountain										
Wilson	Johnson	M		1	2,240	2,300	2,410	3.9	.8	A14123
Hanna										
Monolith-Red Mountain	Hanna No. 2	M		1	2,190	2,250	2,490	5.2	.4	B32728
Nugget	No. 3	T	14- by 6-inch		2,150	2,210	2,230	6.8	.5	D54089
Do.	do.	T	6- by 1-5/8-inch		2,150	2,210	2,260	7.5	.4	D54090
Do.	do.	T	1-5/8-inch by 0		2,180	2,210	2,230	8.0	.4	D54091
Do.	Below No. 3	T	14- by 3-inch		2,100	2,180	2,190	4.7	.4	E94868
Do.	do.	T	3-inch by 0		2,050	2,190	2,380	8.9	.6	E94869
Public Coal Mining Company	-	M		1	2,240	2,300	2,520	5.4	.9	C44260
Charles West	-	M		1	2,510	2,570	2,690	7.2	2.1	93487
Medicine Bow										
Fred S. Nelson Prospect	-	M		1	2,340	2,450	2,510	3.8	.2	93384
Clifton Wissler	-	M		1	2,240	2,450	2,510	10.3	1.3	93383
Harvey Wissler	-	M		1	2,300	2,360	2,410	9.1	1.3	A14124
Rawlins										
Clifford Cross	-	M		1	2,230	2,340	-	4.9	.5	93600
Pettigrew No. 2	-	T	Run-of-mine		2,090	2,130	2,420	10.4	1.6	C66088
Pine Bed	Pine	M		1	2,280	2,370	2,450	6.1	.4	A76864
Savery										
John Logan	-	M		1	2,230	2,280	2,390	5.4	.7	93671
Thomas	-	T	1-1/2-inch lump		2,440	2,480	2,710	6.6	.6	E11280
Do.	-	T	1-1/2-inch by 0		2,420	2,470	2,610	7.0	.6	E11281
Walcott										
Platte	No. 31	M		1	2,340	2,460	2,540	5.4	.3	B25507
J. P. Ryan	-	M		1	2,190	2,260	2,280	3.5	.7	93541
Converse County										
Douglas										
Best Coal Company	"D" Roland	M		1	2,380	2,470	2,500	6.0	.5	D33670
East Antelope	do.	M		1	2,210	2,310	2,420	5.8	.4	D33669
Kern	-	M		1	2,080	2,120	2,230	8.6	1.4	A76865
Glenrock										
Badger	-	T	4-inch lump		2,140	2,170	2,220	9.6	.6	D97472
Do.	-	T	4- by 1-5/8-inch		2,400	2,430	2,450	8.7	.6	D97473
Do.	-	T	1-5/8- by 3/8-inch		2,140	2,170	2,210	10.4	.6	D97474
Do.	-	T	3/8-inch by 0		2,210	2,250	2,330	9.7	.5	D97475

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M C	-	T	1-inch lump		2,360	2,400	2,420	7.4	.3	C66085
Do.	-	T	1- by 1/4-inch		2,130	2,150	2,180	10.2	.5	C66086
Do.	-	T	1/4-inch by 0		2,100	2,130	2,150	11.8	.9	C66087
Verse										
Morsch-Antelope	-	T	3-inch lump		2,420	2,490	2,540	5.5	.4	E95430
Do.	-	T	3-inch by 0		2,420	2,460	2,500	6.4	.6	E95431
Fremont County										
Hudson										
George	No. 1	T	2-inch lump		2,280	2,350	2,410	7.6	.6	E96373
Do.	do.	T	2- by 1-inch		2,310	2,390	2,680	12.3	.7	E96374
Do.	do.	T	1-inch by 0		2,280	2,360	2,620	11.5	.8	E96375
Hudson No. 2	Washakie	M		2	2,090	2,170	2,480	6.3	.6	B42713 and B42714
Mitchell	-	M		3	2,300	2,440	2,640	13.4	1.2	A32868 to A32870
Poposia No. 1	-	M		3	1,970	2,060	2,180	3.7	.4	A4706 to A4708
Schroeder	No. 1	T	2-inch lump		2,140	2,250	2,460	7.8	.7	E96376
Do.	do.	T	2- by 1-inch		2,200	2,340	2,420	10.7	.8	E96377
Do.	do.	T	1-inch by 0		2,200	2,330	2,370	14.8	1.0	E96378
Williams	-	T	1-5/8-inch lump		2,080	2,110	2,310	6.9	.4	C44781
Do.	-	T	1-5/8- by 1/4-inch		2,100	2,150	2,340	6.9	.5	C44782
Do.	-	T	1/4-inch by 0		2,120	2,150	2,380	9.1	.6	C44783
Williams (Rogers)	No. 1	T	2-inch lump		2,150	2,270	2,320	7.8	.7	E97257
Do.	do.	T	2- by 1-inch		2,190	2,330	2,520	11.7	.8	E97258
Do.	do.	T	1-inch by 0		2,150	2,230	2,500	13.7	1.0	E97259
Pavillion										
Barquin	-	T	1-1/4-inch lump		2,290	2,360	2,730	6.6	.7	C44409
Hot Springs County										
Crosby										
Big Horn (Crosby)	Gebo	M		3	1,990	2,040	2,150	4.2	.9	A35441 to A35443
Gebo										
Gebo	do.	M		8	1,990	2,190	2,280	5.1	.6	A78491 to A78498
Gebo No. 2	do.	M		3	2,030	2,120	2,430	4.3	.6	A95799, A95801, and A95803
Gebo No. 4	-	M		1	2,280	2,450	2,580	4.7	.7	B39694
MacPherson	-	M		1	2,120	2,160	2,410	3.4	.7	A34430
Miller	Miller	M		1	2,100	2,150	2,540	2.9	.5	A77457
Osborne	-	M		1	2,230	2,280	2,330	4.4	.7	93770
Do.	-	T	8-inch lump		2,010	2,030	2,090	3.0	.6	D98126
Do.	-	T	8- by 3-inch		1,970	2,080	2,130	3.6	.5	D98127
Do.	-	T	3- by 1-1/2-inch		1,970	2,030	2,080	4.0	.6	D98128
Do.	-	T	1-1/2- by 1/4-inch		1,940	2,000	2,050	3.9	.5	D98129
Do.	-	T	1/4-inch by 0		2,000	2,030	2,070	6.0	.7	D98130
Owl Creek	Gebo	M		1	1,910	1,980	2,090	4.7	.6	A56568
Roncco	-	T	3-inch lump		2,160	2,220	2,420	3.7	.7	E85862
Do.	-	T	3- by 1-1/2-inch		1,970	2,040	2,130	4.1	.9	E85863
Do.	-	T	1-1/2- by 1/4-inch		1,940	2,020	2,100	4.3	.8	E85864
Do.	-	T	1/4-inch by 0		2,000	2,050	2,150	6.1	1.0	E85865
Valley	Osborne	T	10-inch lump		2,380	2,420	2,490	5.0	.7	D98181
Do.	do.	T	10- by 1-1/2-inch		2,230	2,360	2,520	4.3	.8	D98182
Do.	do.	T	1-1/2- by 3/8-inch		2,130	2,180	2,460	5.0	.8	D98183
Do.	do.	T	3/8-inch by 0		2,130	2,160	2,440	7.3	1.0	D98184
Kirby										
Grass Creek	-	T	3-inch lump		2,360	2,420	2,570	11.2	.5	E85972
Do.	-	T	3- by 1-1/4-inch		2,360	2,430	2,570	10.3	.5	E85973
Do.	-	T	1-1/4- by 1/4-inch		2,380	2,440	2,600	9.3	.5	E85974
Do.	-	T	1/4-inch by 0		2,290	2,420	2,680	12.0	.5	E85975
T & T	"A"	M		1	2,310	2,360	2,520	6.0	.7	D56310
Do.	-	T	3-inch lump		2,330	2,500	2,580	6.0	.8	D98178
Do.	-	T	3- by 1-1/2-inch		2,380	2,520	2,780	5.7	.9	D98179

1/ M, mine sample; T, tipple sample. 2/ W, washed

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State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WYOMING (Con.)										
Hot Springs County (Con.)										
Kirby										
T & T	-	T	1-1/2-inch by 0		2,220	2,290	2,580	6.0	.7	D98180
Lucerne										
Cowboy	-	M		1	2,090	2,140	2,200	3.5	1.1	A76714
Thermopolis										
Hi-Line	-	T	Run-of-mine		2,890	2,910+	-	10.5	.6	D98185
M & M	No. 2	M		1	2,270	2,440	2,640	9.5	1.9	A35366
Johnson County										
Buffalo										
Clear Creek No. 2	-	T	3-inch lump		1,950	2,020	2,210	13.8	2.2	E96379
Do.	-	T	3- by 1-1/2-inch		2,040	2,140	2,350	16.5	1.8	E96380
Do.	-	T	1-1/2-inch by 0		2,030	2,090	2,300	14.6	1.6	E96381
Ucross (Sheridan County)										
Mike Krezelok	Healy	M		1	2,210	2,380	2,420	7.3	.5	D50515
Lincoln County										
Alpine										
Blind Bull	Blind Bull	T	1-5/8-inch lump		2,020	2,070	2,130	3.4	.3	C46243
Do.	do.	T	1-5/8-inch by 0		2,260	2,310	2,420	17.1	.4	C46244
Blazon										
Blazon	Spring Valley	M		4	2,270	2,370	2,510	8.1	.6	A53494 to A53497
Brilliant										
Brilliant	Frontier No. 1	T	6-inch lump		2,150	2,210	2,360	6.8	.7	D53640
Do.	do.	T	6-inch by 28-mesh		2,100	2,150	2,360	8.3	.7	D53641
Do.	do.	T	28-mesh by 0		2,130	2,210	2,290	12.4	.8	D53643
Do.	do.	T	3/16- by 1-inch		2,130	2,180	2,360	7.7	.8	D53642
Brilliant No. 8	do.	T	8-inch lump		2,050	2,130	2,280	7.1	.6	E38135
Do.	do.	T	8-inch by 0		2,100	2,160	2,370	9.7	.8	E38136
Diamondville										
Oakley No. 2	Double "O"	T	5-inch lump		2,120	2,170	2,310	4.3	.9	B71836
Do.	do.	T	5- by 1-5/8-inch		2,070	2,180	2,390	7.3	.9	B71837
Do.	do.	T	1-5/8- by 1/4-inch		2,200	2,330	2,580	9.4	1.3	B71838
Do.	do.	T	1/4-inch by 0		2,010	2,120	2,310	11.1	1.5	B71839
Elkol										
Elkol	Mammoth	M		4	2,170	2,200	2,300	4.6	.9	B43406 to B43409
Do.	Adaville	M		1	2,140	2,170	2,260	2.9	.7	C29103
Do.	do.	T	Run-of-mine		2,840	2,910+	-	3.0	.8	D53634
Do.	do.	T	1- by 3/16-inch		2,910+	-	-	2.2	.7	D53635
Do.	do.	T	3/16-inch by 0		2,910+	-	-	3.4	.8	D53636
Do.	do.	T	Run-of-mine		2,250	2,360	2,600	3.7	.8	E38143
Frontier										
Gomer No. 5 South	Kemmerer No. 5	M		1	2,230	2,330	2,530	5.1	1.0	B43405
Do.	Willow Creek	T	3-inch lump		2,290	2,340	2,730	5.5	1.1	C47255
Do.	do.	T	3- by 1-5/8-inch		2,330	2,380	2,730	8.4	1.1	C47256
Do.	do.	T	1-5/8- by 1-inch		2,340	2,410	2,730	10.8	1.1	C47257

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Do.	do.	T	1-inch by 0		2,290	2,370	2,730	13.1	1.1	C47258
Kemmerer No. 5 A	do.	T	3-inch lump		2,050	2,080	2,310	5.3	1.3	C47251
Do.	do.	T	3- by 1-5/8-inch		2,050	2,160	2,570	8.1	1.1	C47252
Do.	do.	T	1-5/8- by 1-inch		2,050	2,170	2,570	10.2	1.1	C47253
Do.	do.	T	1-inch by 0		2,110	2,260	2,600	18.0	1.0	C47254
Kemmerer										
Lees	-	T	1-1/2-inch lump		2,350	2,430	2,700	10.1	.5	C47259
Do.	-	T	1-1/2-inch by 0		2,380	2,450	2,700	12.6	.4	C47260
Lincoln Star	-	T	6-inch lump		2,270	2,360	2,600	7.1	.4	B71995
Do.	-	T	4- by 1-1/4-inch		2,440	2,590	2,800	12.3	.4	B71996
Do.	-	T	1-1/4-inch by 0		2,450	2,680	2,890	11.9	.5	B71997
Pacific Coast	Spring Valley	M		1	2,340	2,390	2,450	7.4	.5	94615
Oakley										
Snaddon No. 1	do.	M		1	2,280	2,390	2,620	18.7	.7	94614
Sublet										
Sublet No. 5	Kemmerer No. 5	M		4	2,130	2,220	2,300	6.4	.9	A5455 to A5458
Natrona County										
Arminto										
Manuel Armenta	-	M		1	2,150	2,280	2,330	10.3	1.4	93769
Casper										
Blue Rock	-	M		1	2,410	2,450	2,490	6.9	.5	B25508
Swigart	-	M		1	2,450	2,470	2,520	6.9	.5	C44261
Thompson	-	M		1	2,130	2,190	2,210	8.7	.4	A96050
Niobrara County										
Lusk										
Grim	-	M		1	2,100	2,160	2,250	11.1	1.0	A76863
Park County										
Elk Basin										
New Silver Tip	Silvertip	M		1	2,440	2,640	2,740	7.6	.6	B66668
Silvertip No. 2	do.	M		1	2,560	2,700	2,840	9.5	.7	C28184
Silvertip Outcrop	do.	M		1	2,910+	-	-	13.1	.5	C28259
Garland										
Honeysett	-	M		1	2,020	2,090	2,220	7.8	1.0	A42291
Meeteetse										
Black Diamond	-	T	Run-of-mine		2,020	2,050	2,360	10.6	.2	E86270
Sheridan County										
Acme										
Acme	Carney	M		1	2,280	2,310	2,340	4.6	.4	B42519
Arvada										
Wildhorse	Arvada	M		1	1,940	2,030	2,050	11.8	2.2	D20225
Monarch										
Kleenburn	Carney	T	Run-of-mine		2,150	2,180	2,210	5.1	.5	D52466
Monarch	Monarch	M		1	2,180	2,270	2,400	4.6	.6	C30032
Do.	do.	T	3-inch lump		2,180	2,210	2,230	5.1	.6	D97663
Do.	do.	T	3- by 1-1/2-inch		2,050	2,070	2,100	5.6	.7	D97664
Do.	do.	T	1-1/2-inch by 0		2,150	2,180	2,210	5.3	.7	D97665
Monarch No. 45	do.	M		5	2,150	2,200	2,510	5.0	.6	B38440 to B38444
Ranchester										
Big Horn	Masters	T	3- by 1-1/2-inch		2,070	2,130	2,220	5.7	.9	E37671
Do.	do.	T	1-1/2- by 1-inch		2,060	2,130	2,220	6.0	.9	E37672
Do.	do.	T	1-1/2-inch by 0		2,130	2,170	2,250	7.2	.9	E37673
Big Horn No. 1	Carney	T	Run-of-mine		2,190	2,230	2,290	5.5	.4	C45516
Do.	do.	T	1-inch lump		2,180	2,230	2,260	6.3	.8	C76056
Do.	do.	T	1-inch by 0		2,000	2,040	2,070	7.6	.7	C76057
Do.	Masters No. 1	T	Run-of-mine		2,130	2,210	2,310	6.5	.7	C45602

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample[1]	Size of coal[2]	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WYOMING (Con.)										
Sheridan County (Con.)										
Ranchester										
Big Horn No. 1	Masters No. 1	T	10- by 3-inch		2,130	2,150	2,210	5.6	.7	C46756
Do.	do.	T	1-1/2- by 1-inch		2,150	2,180	2,210	5.9	.7	C46757
Do.	do.	T	1-inch by 0		2,100	2,130	2,160	6.5	.8	C46758
Do.	Monarch	T	11- by 5-inch		2,150	2,180	2,260	4.7	.6	D52674
Do.	do.	T	5- by 1-1/2-inch		2,130	2,160	2,210	5.3	.5	D52675
Do.	do.	T	1-1/2- by 3/8-inch		2,360	2,400	2,520	4.9	.7	D52676
Do.	do.	T	1-1/2-inch by 0		2,150	2,210	2,260	5.1	.7	D52677
Big Horn No. 2	Masters	T	11- by 5-inch		2,470	2,530	2,560	4.0	.6	D52200
Do.	do.	T	5- by 1-1/2-inch		2,120	2,180	2,260	5.7	.7	D52201
Do.	do.	T	1-1/2- by 3/8-inch		2,230	2,360	2,380	7.0	.8	D52202
Do.	do.	T	1-1/2-inch by 0		2,230	2,310	2,330	7.4	1.1	D52203
Welch	Monarch	T	Run-of-mine		2,180	2,310	2,510	11.1	.6	E85749
Sheridan										
Black Diamond	Big Goose	T	5-inch lump		2,470	2,530	2,590	5.2	.5	B79292
Do.	do.	T	5- by 1-1/2-inch		2,460	2,500	2,610	6.2	.5	B79293
Do.	do.	T	1-1/2- by 3/8-inch		2,430	2,470	2,580	6.0	.4	B79294
Do.	do.	T	3/8-inch by 0		2,310	2,340	2,400	8.1	.7	B79295
Do.	-	T	3-inch lump		2,430	2,460	2,480	5.8	.5	E37282
Do.	-	T	3- by 1-inch		2,160	2,200	2,230	8.4	.5	E37283
Do.	-	T	1- by 1/2-inch		2,120	2,210	2,230	7.7	.4	E37284
Do.	-	T	1/2-inch by 0		2,070	2,140	2,170	9.8	.9	E37285
Custer	Deitz No. 1	T	Run-of-mine		2,270	2,380	2,420	4.5	.4	D97930
Hotchkiss	Monarch	M		1	2,080	2,120	2,190	5.6	.6	A34352
Star	-	T	3-inch lump		2,310	2,370	2,730	6.3	.5	B79286
Do.	-	T	Run-of-mine		2,310	2,380	2,760	6.4	.6	B79287
Storm King	Monarch	T	3-inch lump		2,440	2,510	2,540	4.8	.4	E85280
Do.	do.	T	3- by 1-1/2-inch		2,310	2,370	2,420	6.9	.5	E85281
Do.	do.	T	1-1/2- by 3/8-inch		2,460	2,500	2,530	5.8	.5	E85282
Do.	do.	T	3/8-inch by 0		2,150	2,190	2,230	8.7	.7	E85283
Sweetwater County										
Dines										
Dines No. 10	No. 10	T	7-inch lump		2,020	2,050	2,190	2.3	.7	C47644
Do.	do.	T	7- by 3-inch		2,030	2,050	2,260	2.3	.7	C47645
Do.	do.	T	3- by 1-5/8-inch		2,040	2,060	2,360	2.9	.6	C47646
Do.	do.	T	1-5/8-inch by 0		2,020	2,060	2,360	5.5	1.0	C47647
Do.	do.	M		1	1,970	2,030	2,100	2.2	.9	C93153
Dines No. 11	-	T	Run-of-mine		2,100	2,190	2,520	4.6	1.0	B72711
Do.	No. 11	T	1-inch lump		2,150	2,260	2,520	5.3	.8	C93445
Do.	do.	T	1- by 1/4-inch		2,100	2,150	2,470	4.2	.9	C93446
Do.	do.	T	1/4-inch by 0		2,080	2,130	2,490	6.7	1.2	C93447
Do.	do.	M		5	2,160	2,280	2,440	3.3	.8	C93154 to C93158
Do.	No. 15	T	10-inch lump		2,290	2,340	2,380	2.9	.9	D53146
Do.	do.	T	10- by 3-inch		2,230	2,310	2,420	3.1	.6	D53147
Do.	do.	T	3- by 1-5/8-inch		2,210	2,260	2,520	3.3	.7	D53148

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Do.	do.	T	1-5/8- by 1-inch		2,100	2,210	2,620	3.6	.7	D53149
Do.	do.	T	1- by 1/4-inch		2,130	2,160	2,470	3.9	.8	D53150
Do.	do.	T	1/4-inch by 0		2,080	2,100	2,150	6.6	1.5	D53151
Quealy										
Rainbow	No. 7	M		2	2,230	2,280	2,460	2.3	1.0	C95160 and C95161
Do.	do.	T	5-inch lump		2,840	2,910	2,910+	1.9	.7	D71434
Do.	do.	T	5- by 1-5/8-inch		2,780	2,890	2,910+	2.4	.7	D71435
Do.	do.	T	1-5/8- by 1-1/4-inch		2,730	2,840	2,890	3.1	.8	D71436
Do.	do.	T	1-1/4- by 3/16-inch		2,840	2,890	2,910+	2.8	.7	D71437
Do.	do.	T	3/16-inch by 0		2,360	2,470	2,570	5.1	.8	D71438
Rainbow No. 3	do.	T	8-inch lump		2,090	2,180	2,370	4.4	1.0	E38129
Do.	do.	T	8- by 3-inch		2,480	2,620	2,730	2.9	.8	E38130
Do.	do.	T	3- by 1-5/8-inch		2,400	2,520	2,660	3.1	.8	E38131
Do.	do.	T	1-1/4- by 3/16-inch		2,420	2,560	2,750	5.5	.9	E38132
Do.	do.	T	1-5/8-inch by 0		2,250	2,330	2,520	7.3	1.1	E38133
Do.	do.	T	3/16-inch by 0		2,270	2,340	2,550	8.4	1.2	E38134
Rainbow No. 5	do.	T	5-inch lump		2,530	2,560	2,690	3.3	.8	E84161
Do.	do.	T	5-inch by 0		2,300	2,370	2,610	6.0	1.0	E84163
Do.	do.	T	1-1/4- by 3/16-inch		2,360	2,460	2,680	6.2	1.1	E84162
Do.	do.	T	3/16-inch by 0		2,220	2,300	2,470	7.2	1.2	E84164
Sweetwater	Rock Springs No. 3	M		1	2,240	2,490	2,670	2.7	1.0	B43404
Do.	No. 3	T	5-inch lump		2,790	2,850	2,900+	2.8	.9	B81990
Do.	do.	T	5- by 3-inch		2,910+	-	-	4.6	.7	B81991
Do.	do.	T	3- by 1-5/8-inch		2,910+	-	-	5.9	.8	B81992
Do.	do.	T	1-5/8-inch by 0		2,650	2,740	2,910+	5.7	.9	B81993
Sweetwater No. 2	do.	M		1	2,820	2,860	2,910	3.9	.8	C29589
Do.	do.	T	3-inch lump		2,910+	-	-	5.4	.9	C47265
Do.	do.	T	3- by 1-5/8-inch		2,820	2,890	2,910+	7.1	.8	C47266
Do.	do.	T	1-5/8-inch by 0		2,820	2,910	2,910+	7.8	.8	C47267
Do.	No. 7	T	5-inch lump		2,460	2,560	2,670	3.5	.9	D53637
Do.	do.	T	5- by 1-5/8-inch		2,680	2,740	2,790	3.7	.8	D53638
Do.	do.	T	1-5/8-inch by 0		2,360	2,450	2,520	5.6	1.0	D53639
Rawlins (Carbon County)										
Cherokee	-	M		1	2,030	2,150	2,280	13.0	1.3	93599
Reliance										
Reliance No. 1	No. 4	T	Run-of-mine		1,990	2,070	2,170	5.1	1.3	C47543
Do.	No. 7	T	6-inch lump		1,940	2,030	2,080	2.9	.8	D67345
Do.	do.	T	6- by 1-5/8-inch		2,130	2,210	2,420	3.9	.8	D67346
Do.	do.	T	1-5/8- by 1-inch		2,180	2,230	2,420	3.9	.7	D67347
Do.	do.	T	1-inch by 0		2,050	2,100	2,150	7.5	1.1	D67348
Do.	No. 11	T	6-inch lump		2,030	2,100	2,420	2.7	.9	D67349
Do.	do.	T	6- by 1-5/8-inch		2,020	2,100	2,390	2.8	.7	D67350
Do.	do.	T	1-5/8- by 1-inch		2,100	2,150	2,470	3.3	.8	D67351
Do.	do.	T	1-inch by 0		2,000	2,050	2,100	5.4	1.3	D67352
Rock Springs										
E-Plane No. 11	No. 3	T	Run-of-mine		2,260	2,320	2,570	6.9	1.0	C47381
Gunn	Rock Springs No. 3	T	8-inch lump		2,250	2,310	2,780	3.6	.9	B72329
Do.	do.	T	8-inch by 0		2,120	2,210	2,790	5.2	1.3	B72330
Gunn B	No. 11	T	1-5/8-inch by 0		2,050	2,090	2,430	5.3	1.3	C47261
Gunn C	No. 7	T	7-inch lump		2,190	2,330	2,570	3.6	.8	C47262
Do.	do.	T	1-5/8-inch by 0		2,030	2,090	2,360	5.5	1.2	C47264
Myers	-	M		1	2,000	2,050	2,140	5.9	6.4	A43129
New Star	No. 3	T	3-inch lump		2,780	2,840	2,910+	4.2	.7	C47546
Do.	do.	T	3- by 1-5/8-inch		2,790	2,840	2,910+	5.8	.7	C47547
Do.	do.	T	1-5/8- by 1-inch		2,700	2,750	2,850	5.8	.7	C47548
Do.	do.	T	1-inch by 0		2,220	2,300	2,620	7.3	.9	C47549
Peacock	No. 7	T	10-inch lump		2,130	2,390	2,470	1.8	.7	E38140
Do.	do.	T	10- by 1-5/8-inch		2,320	2,480	2,660	2.8	.7	E38141
Do.	do.	T	1-5/8-inch by 0		2,120	2,400	2,680	4.0	.9	E38142
Rock Springs No. 4	No. 1	M		5	2,210	2,360	2,510	4.1	1.2	A62224 to A62228
Do.	-	T	Run-of-mine		2,340	2,400	2,730	6.6	.9	C47751

1/ M, mine sample; T, tipple sample. 2/ W, washed.

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TABLE 3. - Fusibility of ash of United States Coals (Con.)

State, county, town, and mine	Bed	Kind of sample 1/	Size of coal 2/	Number of samples averaged	Fusibility of Ash: Initial deformation temperature, °F.	Fusibility of Ash: Softening temperature, °F.	Fusibility of Ash: Fluid temperature, °F.	Percent, dry basis: Ash	Percent, dry basis: Sulfur	Laboratory No.
1	2	3	4	5	6	7	8	9	10	11
WYOMING (Con.)										
Sweetwater County (Con.)										
Rock Springs										
Rock Springs No. 8	No. 1	T	7-inch lump		2,800	2,860	2,910+	4.8	.9	C47371
Do.	do.	T	1-inch by 0		2,260	2,290	2,520	8.5	1.0	C47373
Songster	-	M		1	2,120	2,170	2,430	3.5	1.0	B63872
Do.	-	T	2-inch lump		2,140	2,200	2,530	3.1	1.0	B72646
Do.	-	T	2- by 1-1/2-inch		2,120	2,180	2,490	3.5	1.0	B72647
Do.	-	T	1-1/2-inch by 0		1,930	1,970	2,400	8.6	2.7	B72648
Swanson	Van Dyke	T	3-inch lump		2,260	2,340	2,680	6.4	1.1	C47752
Do.	do.	T	3- by 1-5/8-inch		2,170	2,330	2,610	6.2	1.3	C47753
Do.	do.	T	1-5/8-inch by 0		2,060	2,170	2,610	7.6	1.3	C47754
Stansbury										
Stansbury	No. 1	T	6-inch lump		2,130	2,150	2,210	3.3	1.0	D67452
Do.	do.	T	6- by 3-inch		2,130	2,180	2,230	4.0	.9	D67453
Do.	do.	T	3- by 1-inch		2,130	2,180	2,360	5.3	1.1	D67454
Do.	do.	T	1-inch by 0		1,970	2,050	2,150	6.0	1.4	D67455
Do.	No. 3	T	6-inch lump		2,030	2,100	2,180	2.4	.9	D67448
Do.	do.	T	6- by 3-inch		1,970	2,030	2,050	2.8	1.1	D67449
Do.	do.	T	3- by 1-inch		1,940	2,030	2,230	3.8	1.0	D67450
Do.	do.	T	1-inch by 0		1,940	2,000	2,100	3.6	1.1	D67451
Do.	No. 7 1/2	T	6-inch lump		2,030	2,130	2,210	4.7	.9	D67444
Do.	do.	T	6- by 3-inch		1,920	2,000	2,100	3.0	.8	D67445
Do.	do.	T	3- by 1-inch		2,150	2,310	2,470	9.2	.9	D67446
Do.	do.	T	1-inch by 0		2,000	2,100	2,310	7.2	1.2	D67447
Superior										
D. O. Clark	No. 7	M		1	2,450	2,520	2,540	5.4	.9	C85315
Do.	No. 7 1/2	M		1	1,920	2,080	2,310	2.6	1.1	C85314
Do.	No. 9	M		1	2,080	2,150	2,420	2.6	.9	C85316
Do.	No. 15	M		1	2,310	2,420	2,650	3.9	1.1	C85317
Do.	No. 7	T	6-inch lump		1,940	2,180	2,470	1.4	.9	D67721
Do.	do.	T	6- by 3-inch		2,050	2,180	2,470	4.4	1.0	D67722
Do.	do.	T	3- by 1-inch		2,170	2,230	2,450	2.7	.8	D67723
Do.	do.	T	1-inch by 0		2,100	2,310	2,470	4.4	.8	D67724
Do.	No. 7 1/2	T	6-inch lump		1,830	1,970	2,230	2.2	1.0	D67725
Do.	do.	T	6- by 3-inch		2,050	2,420	2,620	2.6	.7	D67726
Do.	do.	T	3- by 1-inch		2,000	2,100	2,230	4.2	1.0	D67727
Do.	do.	T	1-inch by 0		1,940	2,130	2,420	5.2	1.3	D67728
Do.	No. 9	T	6-inch lump		2,180	2,230	2,310	3.4	.7	D67729
Do.	do.	T	6- by 3-inch		2,230	2,340	2,500	1.7	.9	D67730
Do.	do.	T	3- by 1-inch		1,970	2,100	2,420	1.7	.8	D67731
Do.	do.	T	1-inch by 0		1,970	2,070	2,230	2.6	.9	D67732
Do.	No. 15	T	6-inch lump		2,890	2,910+	-	2.8	.7	D67733
Do.	do.	T	6- by 3-inch		2,730	2,810	2,890	2.8	.5	D67734
Do.	do.	T	3- by 1-inch		2,520	2,730	2,890	4.0	.6	D67735
Do.	do.	T	1-inch by 0		2,210	2,420	2,620	4.1	.8	D67736
Kleen-Fyre	No. 3	T	1-5/8-inch lump		2,180	2,310	2,360	2.6	1.0	C93150
Do.	do.	T	1-5/8-inch by 0		2,310	2,420	2,520	5.8	1.1	C93151
Premier	No. 1	T	1-5/8-inch lump		2,660	2,750	2,890	3.7	.9	B72327

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Do.	do.	T	1-5/8-inch by 0		2,500	2,570	2,840	4.1	1.1	B72328
Rock Springs No. 3	No. 3	M		3	2,150	2,170	2,360	3.8	1.1	B43936 to B43938
D	No. 1	M		1	2,230	2,310	2,380	5.8	1.3	C85313
Winton										
Winton	do.	M		1	2,120	2,150	2,240	2.2	1.0	B43059
Do.	do.	T	Run-of-mine		1,940	2,030	2,420	4.8	1.0	C47656
Do.	No. 7 1/2	M		1	2,030	2,090	2,190	2.6	.7	B43060
Do.	do.	T	Run-of-mine		2,310	2,360	2,570	5.6	.8	C47657
Winton No. 3	No. 3	M		5	1,910	1,970	2,160	4.4	1.7	A62218 to A62222
Sublette County										
Daniel										
Cottonwood	-	M		1	2,030	2,080	2,500	4.3	.6	C6410
Do.	Blind Bull	T	4-inch lump		2,030	2,100	2,380	4.0	.4	E50576
Do.	do.	T	3- by 1-5/8-inch		2,240	2,310	2,450	6.6	.4	E50577
Do.	do.	T	1-5/8- by 3/16-inch		2,140	2,230	2,410	10.3	.8	E50578
Do.	do.	T	3/16-inch by 0		1,970	2,180	2,380	7.6	.8	E50579
Do.	do.	T	Run-of-mine		2,270	2,370	2,540	6.6	.7	E84160
Teton County										
Jackson										
Granite Creek	-	T	5-inch lump		2,080	2,100	2,260	3.8	.6	C46245
Do.	-	T	5- by 2-inch		2,090	2,140	2,310	4.5	.5	C46246
Do.	-	T	2-inch by 0		2,210	2,360	2,570	6.6	.4	C46247
Kelly										
Twogwotee	-	M		1	2,100	2,180	2,460	11.0	6.1	C25682
Uinta County										
Evanston										
Community	-	M		1	2,090	2,240	2,340	7.0	.9	94616
Kendal	-	T	2-1/2-inch lump		2,570	2,590	2,780	13.8	.7	D71439
Do.	-	T	2-1/2- by 1-1/2-inch		2,520	2,620	2,780	17.5	.7	D71440
Do.	-	T	1-1/2- by 1-1/4-inch		2,380	2,570	2,780	16.8	.8	D71441
Do.	-	T	1-1/4-inch by 0		2,520	2,570	2,730	15.4	.8	D71442
Weston County										
Upton										
Cummings	-	M		1	2,220	2,310	2,410	6.8	.4	C65874
Krogman	-	M		1	2,150	2,230	2,250	10.4	.8	A3558

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1/ M, mine sample; T, tipple sample. 2/ W, washed.